Construction News

PRICE CHANGES AND THE BUSINESS OUTLOOK

Each week more is heard about the continued improvement in business, not only as applied to goods manufactured for export, but in nearly all lines for local consumption. The net earnings of the railroads show a decided increase over last year at this time, and business is so brisk that they are in no position at present to handle the freight which is piling up. One drawback seems to be the scarcity of transports at freight terminals, which ties up the unloading. According to railroad and shipping interests, deliveries scheduled to start Nov. 1 will be in excess of available cargo room on ships sailing from New York, and consequently railroad shipments will be diverted, to a certain extent, to Canadian ports, where shipping facilities to foreign ports are more easily obtained. A number of the railroads are placing large orders for new freight cars, among which are the New York Central, with an order for 9,000, and the Baltimore & Ohio for 1,000 hopper bottom cars, besides which figures have been asked by other roads for about 6,000 more. The railroads are also placing heavy orders for 1916 delivery of rails, among which are the Pennsylvania for 175,000 tons, the Boston & Maine, 25,000 tons, the Illinois Central, 65,000 tons and the Baltimore & Ohio for 62,500 tons. These orders give us an idea of the vast amount of rail business being handled; when it is understood that Russia alone has bought 350,000 tons and is in the market for more, it can be seen that business already placed in this line alone is around 1,000,000 tons.

The demand for pig iron and various lines of steel is the greatest since 1907, and is in excess of the producing capacity of the furnaces and mills. It is almost impossible to buy any pig iron, scrap, or ingot, for present delivery. Pig iron in the past three months has increased in price approximately 35%, and steel products outside of steel rails about 15%, and business in these lines is more than double that of a year ago. Pittsburgh is booming with this increased activity, the Westinghouse Electric Co. having bought 100 acres, to erect 500 model dwellings for employees at a cost of $1,500,000.

It is interesting to note that from 1900 to 1912, although the population of the United States has increased but a little over 25%, the national wealth has increased 112%, or $803 per person. Exports are reaching new marks each week, being estimated around $100,000,000 the third week in October against $73,700,000 the previous week. Contrast these figures with the weekly average for the past five years of $39,000,000, and some idea of the increase is gained. A large contract recently placed which is of interest is the order for 5,000,000 yd. of cloth, placed with the American Woolen Co., by the Russian Government, and is the greatest single order ever placed with one concern in this line.

Trade balances are piling up faster than ever before, the past four weeks the total being over $200,000,000. A year ago it was about $40,000,000. About 60 per cent. of these exports are for goods fully or partly finished, against a year ago when it was about 25 per cent. Municipal bond issues for September throughout the country, reached a total of over $21,000,000 against $8,712,000 for September a year ago. The increase for nine months of this year against last year is $38,395,668. Bond issues to be voted for the next six months if a good percentage pass, should increase considerably the over total for 1915 as there is a great deal of large work contemplated. Building permits for September from 163 cities furnish us with a contemplated outlay of $72,862,340 or $17,995,319 more than for the same month of last year.

The question of unskilled labor in construction work is very liable to become serious with the opening of work in 1916, as at the present time it is hard to get labor to leave the larger cities even for $2 a day of 8 hr. Emigration to this country has dropped to about ¼ of what it was a year ago. For instance August, 1915, 21,940 emigrants landed here against 142,655 a year ago. Taking into consideration the great number of laborers returning to their own country, against those arriving and the expected additional construction contemplated for next year, it would seem that the unskilled labor problem is one of prime importance to the contractor.

Conservative banking interests are greatly worried over the present speculation in industrial stocks and consider it would be best for all concerned if the market were given a rest for a time.

The cement market is considerably firmer than it was a month ago with an additional rise in price of 10c. this week, this increase being due to the additional orders being placed and the shortage of labor as the steel interests are taking every available man. The local brick market is in better shape than it was a month ago, prices ranging from $6.75 to $7. Local business in all heavy construction lines seems to be better than before, this being caused by all contractors placing orders in an endeavor to finish as much work as possible before the winter sets in.

CEMENT, LIME AND BRICK

Brick—The brick market is firmer than it has been for some time at around $6.75 per thousand. This price is for Hudson and Raritan brick. Dealers do not expect a further increase in price at present. The reason for prices holding so firm is that the brick manufacturers have all cut down on the regular amount manufactured this year, expecting a continuation in the building slump and consequently are short of stock.

Portland Cement—Exceptional demand for this material has caused prices to increase. Labor scarcity has been a factor causing concern to manufacturers, and shipments are made with some difficulty. In the Eastern district the following quotations are current and show an advance of 10c. over last month:

New York	$1.22
Jersey City	1.16
Boston	1.37

The above prices are exclusive of package and for carload lots f.o.b. cars at places named. To contractors 45c. is added to the above figures, including charge for bags. To dealers 40c. is added to the above figures.

Labor—The market for unskilled labor is more acute at the present time than it has been all summer. This is on account of so many unskilled laborers going back to their own countries, and the regular amount of rush fall business which all contractors want to complete before cold weather sets in. The local employment agencies have a great many calls on hand all the time for laborers, $2 per day for an 8-hr. day, and find it practically impossible to fill them. The call for men in the building line is very slack, men applying for positions all the time, and practically no demand for same. Experienced machine shop men are at a premium, and are almost impossible to get. There is a great demand for machine shop men of all classes in England, advertisements appearing in the New York papers pretty regularly, offering very good inducements, but prices paid in this country are so high at present that, as far as we can understand, they are having very poor success in obtaining any men to fill the positions.

Crushed Stone—Business continues fairly good, and prices over last month have shown some advance. For immediate shipments on fair size contracts for 1½-in. crushed stone the price now ranges from 80 to 90c., and on ¾ in. 90c. to $1. Some dealers may experience difficulty in securing shipments due to the great demand for barges. In this connection it may also be said that prices may advance in accordance with the extra increase on barge charges. The demand for this material for highway improvement continues fair, and dealers appear to be well booked with orders. For extra large contracts, the foregoing prices may be shaded slightly.

Sand and Gravel—Local dealers say that business is better now than it has been for a number of years, although the amount of business being done has not affected prices over a month previous. Sand is quoted at 45c. per cu.yd., some dealers asking only 40c. on large orders. Gravel prices are as follows: Subway, 95c. per cu.yd., and paving 75c. per cu.yd.; 1½ in. gravel 80c. per cu.yd., and ¾ in. gravel at 85c. per cu.yd. These quotations are for full cargo lots of 500 cu.yd., delivered alongside of docks, New York.

IRON AND STEEL

Pig Iron—Not since 1907 has the buying of pig iron been so marked, and in comparison with the situation of a year ago the amount of business has practically doubled. Several times during the month, prices have jumped without occasioning any decrease in the demand, and at present makers are well able to maintain prices, and conditions are such that further increases are forecasted. The present demand is principally attributed to the war, although the domestic consumption is by no means light. At Cleveland during the last week the gathering of the steel representatives occasioned a great deal of interest, and the general discussions of those present gives reason to believe that the present state of the steel trade is almost without parallel. Although the buying in the Pittsburgh district is heavier than a month ago, the price remains the same, bessemer iron being quoted at $16.95 and basic at $15.95. These quotations include the usual freight charge from the valley to the Pittsburgh district. In the Cincinnati district, foundry irons have advanced a dollar per ton. The volume of business has been steady and heavy at this rate. The following quotations are effective:

Cincinnati Southern Foundry No. 2	$15.40 to $15.90
Cincinnati Northern Foundry No. 2	16.51 to 16.76
Cincinnati Northern Foundry No. 2	16.26 to 16.51

Chicago manufacturers are working under heavy pressure, and the volume of business is so great that the maximum of production is almost reached. Prices have been advanced, and are well maintained. The prices following are f.o.b. furnace, and for the switching charge the average is 50c. per ton. Northern Foundry No. 1 is now selling at $15.50 to $16.00; Northern Foundry No. 2 at $15.25 to $15.50. The Birmingham district prices have again advanced a dollar per ton, and shipments at this rate continue very heavy. For delivery f.o.b. furnaces, the price of Southern Foundry No. 2 is $13 to $13.50; No. 1 Southern Foundry sells at $13 to $14. In New York buyers have appeared in the market, and reports show that more deals have been closed than a month ago. In sympathy with the other districts, prices have shown an advance. Northern Foundry No. 2 plain is quoted at $15.75 to $16.25; No. 2X at $16.25 to $16.75. Southern iron is $17 to $17.25 for No. 1, and for No. 2, $16.75 to $17.

Steel Rails—Railroads are still entering the market and buying is even more free than a month ago. The most recent report states that the Pennsylvania R.R. Co. has entered an order of 175,000 tons of steel rails for its lines east and west of Pittsburgh. These rails are to cover the 1916 requirements of this system. Foreign governments are still sending in inquiries, and the mining and lumber interests are appearing in the market especially for orders of light rails. Quotations are without change, and for lots of 1000 tons or over, prices are as follows: Standard sections of bessemer, $28; open-

hearth, $30, both per gross ton f.o.b. Pittsburgh. Girder rails in 30-ft. lengths are $36.40; in 60-ft. lengths, $38.40 per gross ton. Large lots, prices given in cents per lb., are as follows: Standard sections bessemer rails, 1.25c.; open-hearth, 1.34c. Light rails are quoted as follows: 25- to 45-lb. sections, 1.34c.; 16- to 20-lb., 1.39c.; 12- to 14-lb., 1.44c.; 8- to 10-lb., 1.49c. These are for carload or larger lots. An advance of 5c. per 100 lb. is charged for less than carload lots.

Track Supplies—Following the general advance of other steel materials, there has been an increase in the price of spikes, the present quotation being $1.70 per keg. The volume of business is heavier than a month ago, and inquiries on hand show considerable future business. The above quotation is for standard spikes, the smaller spikes selling at $1.80 per keg. Both quotations are f.o.b. Pittsburgh. Track bolts and square nuts are quoted at $2.10 to $2.25 in carload lots Pittsburgh. Standard section angle bars sell at $1.50 to $1.75, base, f.o.b. Pittsburgh. Track bolts at Chicago are selling at $2.10 to $2.25, and tie plates at $30 to $32 per ton.

Plates—Orders for this material have been more numerous and prices have stiffened and are well maintained. Shipbuilding companies are entering the market, and toward the latter half of the month have placed some very generous orders, and several contractors have ordered a fair quantity of plates for the construction of tanks. Although in some instances it is reported that prices have been shaded, the general quotation appears to be firm at $1.45 f.o.b. mills Pittsburgh. This price is equivalent to 1.639c. per lb. Chicago. The charge from stock in Chicago is 2c. per lb. In Philadelphia it is 1.609c., and in New York it is 1.619c., and from store 2.10 to 2.15c.

Structural Material—Building operations have shown an increased activity; especially in this noticeable in industrial circles. As a result, the demand for structural shapes is more apparent, and prices were not only stronger during the earlier part of the month but the latter half an increase of a dollar per ton was necessary. The placing of large orders for railroad cars and the call for special fabricated material from some of the railroads, created a more constant demand for certain structural shapes. The increase has been $2 per ton, and the base price at Pittsburgh is now $1.50 per 100 lb. This includes beams up to 15 in., channels 3 to 15 in. and angles 3 to 6 in.; T's 3 in. and over. Cutting to specified lengths is charged at the following rates: 2 to 3 ft. inclusive, 25c.; 2 ft. to 1 ft., 50c.; under 1 ft., $1.55. No charge is made for cutting to specified lengths over 3 ft. In Philadelphia the base price is 1.659c. Small lots stock sell at least $1 to $2 per ton higher. In New York the base price is 1.619c. Small lots are quoted at a base price of 2.15c. from storehouse. In Chicago delivery from mill is 1.639c., and from stock 2c. The above quotations are per pound.

Pipe—Manufacturers are operating at a greater capacity than a month ago, and the demand has increased. It is rumored that the higher prices in steel products may tend to create a stronger market for this material and cause an increase in the price as well. On very desirable orders discounts on this material may be shaded, but the following for carload lots f.o.b. Pittsburgh hold fairly steady.

	Black	Galvanized
¾- to 2-in. steel, butt welded	79%	63½%
2½- to 6-in. steel, lap welded	78%	62½%
7- to 12-in. steel, lap welded	76%	58½%

	Cents			Cents	
Diameter	Black	Galvanized	Diameter	Black	Galvanized
¾-in.	2.43	4.19	5-in.	32.56	55.50
1-in.	3.57	6.20	6-in.	42.24	72.00
1¼-in.	4.83	8.39	7-in.	57.12	98.77
1½-in.	5.77	10.03	8-in.	60.00	$1.03
2-in.	7.77	12.55	9-in.	82.80	1.43
2½-in.	12.87	21.93	10-in.	98.99	1.70
3-in.	16.83	28.68	11-in.	$1.11	1.92
4-in.	23.98	40.87	12-in.	1.21	2.10

Sheets—Demands for black sheets have been more in evidence during the latter part of the month, and brought higher prices than during the early part. Compared with quotations of a month ago, the advance is 20c. per 100 lb. On galvanized the demand is moderate but fair and the price is lower. Quotations as given below are for large lots f.o.b. Pittsburgh and small lots from store New York:

	Cents per Pound			
	Large Lots Pittsburgh		Warehouse Delivery New York	
	Black	Galv.	Black	Galv.
No. 10	1.75	2.50	2.25	....
No. 12	1.75	2.60	2.30	3.65
No. 14	1.80	2.60	2.35	3.65
Nos. 18 and 20	1.90	2.85	2.55	3.90
Nos. 22 and 24	1.95	3.06	2.60	4.05
No. 26	2.00	3.20	2.65	4.20
No. 27	2.05	3.35	2.70	4.40
No. 28	2.10	3.50	2.75	4.50

Cast Iron Pipe—A keener interest is shown in the market, and more buyers are entering for spring shipments. Prices are firm as follows: In New York, on 6-in. Class B and heavier, $26 per ton tidewater is asked; and on Class A, $27; the latter price also applying to gas pipe. In Birmingham, oerations are on about the same scale as a month ago, and prices as follows, f.o.b. yards: 4-in., $22, 6-in. and upward, $20; on gas pipe $1 per ton is added. In Chicago contracts are more or less scarce, and the tonnages involved in most cases are small. Following are the quotations per net ton in this district: 4-in. pipe, $28; 6-in. and larger, $26; for Class A water pipe and gas pipe $1 extra is added. The advance in this market of $1 a ton has more or less held back some buying.

Steel Sheet Piling—The demand for this material is no greater than a month ago, and the price remains stationary at $1.55 base per 100 lb., f.o.b. Pittsburgh.

Old Material—Mills are only making purchases when offered very attractive prices, and in most cases are refusing a great deal of material that would not fully fit their requirements. A number of small lots are being purchased, but as yet there has been no decided slump in the market. Dealers in New York are furnishing the following quotations:

	Per Gross Ton
Heavy-melting steel scrap	$12.00 to $12.75
No. 1 railroad wrought	14.00 to 14.50
Stove plate	9.75 to 10.00
No. 1 machinery cast	12.75 to 13.00
Wrought turnings	7.50 to 7.75
Cast borings	7.50 to 7.75
Railroad malleable cast	10.00 to 10.50
No. 2 heavy cast	11.75 to 12.00

A similar condition practically holds true in Chicago, and consumers of materials are buying in moderation and in small quantities. The market, however, is rather strong, considing the general conditions. In this district, at the buyer's works, all freight transfer charges paid, quotations are as follows:

	Per Gross Ton
Heavy melting steel scrap	$11.75 to $12.00
Old steel rails rerolling	13.50 to 14.00
	Per Net Ton
No. 1 railroad wrought	$11.75 to $12.25
No. 2 railroad wrought	11.00 to 11.50
No. 1 cast scrap	10.50 to 11.00
Pipes and flues	8.50 to 9.00
Agricultural malleable	9.25 to 9.75
Railroad malleable	10.25 to 10.75
Cast borings	6.50 to 7.00

Chain—The market continues fair and steady, and the volume of business is about the same as a month ago. Prices remain steady and without change as follows per 100 lb. f.o.b. Pittsburgh.

5/16 in.	$7.50	½ and 9/16 in.	$3.00
¼ in.	4.95	⅝ and 11/16 in.	2.90
7/16 in.	3.95	¾ and 13/16 in.	2.80
⅜ in.	3.40	⅞ and 1½ in.	2.70
7/16 in.	3.20	1 to 1¼ in.	2.60

EXTRAS TO ABOVE LIST PER 100 POUNDS

	For BB	For BBB
5/16-in. and ¼-in.	$1.50	$2.00
7/16-in. and larger	1.25	1.75

Wire Rope—Sales this month have been more numerous than the preceding month, and prices have shown a decided advance. On galvanized the discount is now 40 and 2½% off list. On bright it is 55 and 2½%. Special brand brights are selling at 50 and 2½% off list. Of these discounts the net price wire rope at the mills is as follows:

Diameter in Inches	Price per Foot		
	Cast Steel	Crucible Steel	Plow Steel
2½	$0.77	$0.92	$1.10
2¼	0.63	0.75	0.88
2	0.51	0.59	0.70
1¾	0.40	0.48	0.57
1½	0.29	0.35	0.41
1¼	0.20	0.25	0.29
1	0.14	0.16	0.19
¾	0.08	0.09	0.11
⅝	0.07	0.07	0.08

Freight Rates—The freight rate on finished steel products in the Pittsburgh district, including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, black sheets (except planished), chain, etc., are as follows in cents per 100 lb.; Boston, 18.9; Buffalo, 11.6; Baltimore, 15.4; Cleveland, 10.5; Cincinnati, 15.8; Chicago, 18.9; Denver, 68.6; New Orleans, 30; New York, 16.9; Philadelphia, 15.9; St. Louis, 23.6; Minnesota and St. Paul, 32.9. Pacific Coast (all rail), 73.9.

Merchant Steel—More interest has been taken in the market for merchant shapes, and transactions during the month have been more numerous and the volume of business more steady. In most instances prices have advanced a dollar per ton. The quotations as given below are the general base prices for small lots in jobber's store:

	Cents Per Pound
Refined iron:	
1 to 1⅞ in., round and square	2.05
1½ to 4 in. x ⅜ to 1 in.	2.05
1½ to 4 in. x ¼ to 7/16 in.	2.25
Norway bars	3.95
Burdens bar iron	3.15
Soft steel:	
¾ to 3 in., round and square	2.05
1 to 6 in. x ⅜ to 1 in.	2.05
1 to 6 in. x ¼ and 5/16	2.10
Rods—⅝ and 11/16 in.	2.15
Bands—1½ to 6x7/16 in. to No. 8	2.35
Beams and channels—2 to 15 in.	2.10

Angles:	
3 in. x ¼ in. and larger	2.10
3 in. x ⅛ in. and ⅜ in.	2.55
2½ to 2¾ in. x ⅛ in. and thicker	2.30
1½ to 2½ in. x ⅜ in.	2.20
1½ to 1¾ in. x ⅛ in.	2.30
1 to 1¼ in. x ⅜ in.	2.35
Tees:	
1½ to 2½ x ¼ in.	2.25
1½ to 2½ x ⅛ in.	2.35
3 in. and larger	2.15

Triangle Mesh—The demand continues very good and following the other metal products, increase in this material has resulted. The general revision of price makes the following quotations:

PRICE PER 100 SQ.FT. FOR FOUR-IN. MESH

		Plain Material		Galvanized	
Style No.	Cross-Sec. Area per Ft. Width	Carload Lots	Less Than Car Lots and Over 10,000 Sq.Ft.	Carload Lots	Less Than Car Lots and Over 10,000 Sq.Ft.
†4	0.102	$1.10	$1.20	$1.31	$1.42
5	0.077	.87	.95	1.04	1.12
6	0.058	.69	.76	.82	.89
†7	0.041	.54	.59	.64	.69
†23	0.170	1.84	2.02	2.20	2.38
24	0.142	1.58	1.74	1.89	2.05
25	0.124	1.40	1.54	1.68	1.82
†26	0.110	1.28	1.40	1.53	1.65
†27	0.085	1.05	1.15	1.25	1.35
28	0.066	.87	.95	1.04	1.12
29	0.049	.71	.78	.85	.92
31	0.261	2.70	2.97	3.23	3.50
32	0.225	2.35	2.58	2.81	3.04
33	0.196	2.09	2.30	2.50	2.71
34	0.140	1.61	1.76	1.92	2.08
35	0.109	1.28	1.40	1.53	1.65
36	0.075	.94	1.04	1.13	1.22
38	0.380	3.85	4.23	4.61	4.98
†39	0.325	3.32	3.64	3.97	4.29
40	0.283	2.91	3.19	3.48	3.76
41	0.208	2.22	2.44	2.65	2.87
42	0.151	1.68	1.85	2.01	2.18
43	0.101	1.20	1.32	1.43	1.55

†This material is made in regular widths of 18, 22, 26, 30, 34, 42, 46, 50, 54 and 58 in. Standard lengths of rolls are 150, 300 and 600 ft. Cutting to special length is charged extra.

Bars, Concrete Reinforcing—The mills are receiving more orders than they can take care of, business being even more brisk than it was a month ago. Delivery on orders has been extended to four and five months, and the mills do not appear anxious for any further business for months to come. Prices have advanced 10c. with a further increase expected in a short time. New prices effective October 26 are as follows:

	Cents per Pound		
	Mill Shipment Pittsburgh	F.o.b. Warehouse Pittsburgh	Delivered From Warehouse New York
¾ in. base	$1.50	$2.15	$2.15

Full bar card extras.

Expanded Metal Lath—Business is very good with the dealers in this line, and they find it very hard to fill orders on account of the scarcity of material from the mills. This is caused by their being able to sell their entire output to foreign countries if they wished, instead of which they are doing their best to take care of the market in the United States, although they claim that they can get from 25 to 33 per cent. more by exporting it. Prices have advanced since last month, and dealers expect another advance within a few weeks. Prices for painted are as follows, effective Oct. 27.

Gage	Weight	Carload	1,000 to 5,000	Under 1,000
27	233	$11.44	$12.52	$13.52
26	250	12.47	13.55	14.55
25	300	13.57	14.66	15.66
24	340	14.64	15.75	16.75
22	450	17.54	18.75	19.75

For galvanized cut in sheets, add 6c.

METALS

Copper—During the early part of the month there was some activity in the market, and the price of electrolytic rose to 18¼c. per lb., while Lake remained unchanged at 18c. These prices both held very steady, and although the market was not exceptionally strong at these figures, yet business was considered fair. During the last week of the month there was a lull, and prices of both electrolytic and Lake stood at an even level of 18c. At this quotation, the market showed indications of weakness, and buying for both export and domestic use was very light. Manufacturers of war supplies tend to hold the market strong at this writing, the present quotations having advanced to 18⅛c. for electrolytic and 18¼c. for lake.

Tin—Tin opened the beginning of the month with a firm market at 33c. per lb., but at this figure very little interest was shown. Toward the end of the month, a great deal more business appeared, and the activity in the tin market caused an advance of 3c. per lb. It is believed that a great deal of the buying was done on a speculative basis. As we go to press, the quotation remains at 36c. and the market continues brisk and strong.

Lead—Following the advance of tin last week lead was raised to 4.9c. per lb., and buying by both foreign and domestic consumers was very heavy. Trade conditions at this time are exceptionally good, but some dealers are willing to shade this quotation slightly. In comparison with the first three weeks of the month the price remained stationary at 4.5c., but buying was not considered by any means good. However, this price remained firm, although the inactivity was marked.

Spelter—Following the marked activity in the tin and lead market, spelter sales became more numerous and the market stiffened considerably. Domestic consumption is good, although the foreign demand is more or less irregular. The preesent quotation of 14c. is firmly held, and dealers are of the opinion that it will continue at this figure for sometime.

Old Metals—Prices went up and down during the month. Buyers only at instances showed some interest in the market. The following quotations, however, are well maintained, and are for dealers' prices paid in New York:

	Cents per Pound
Copper, heavy cut and crucible	15.00
Copper, heavy and wire	14.75
Copper, light and bottoms	13.00
Brass, heavy	10.00
Brass, light	8.25
Heavy machine composition	12.00
No. 1 yellow rod brass turnings	10.75
No. 1 red brass or composition turnings	10.50
Lead, heavy	3.75
Lead, tea	3.50
Zinc scrap	8.00

MISCELLANEOUS

Asphaltum—Manufacturers are very busy in this line, on account of contractors trying to get all their work done before cold weather sets in, which means that they are ordering enough material to last them for the balance of the season. The price has advanced to $15 a net ton in wooden packages, caused by the difficulty in getting tank steamers to bring Mexican petroleum to this country, and the increased freight rate that they are charging.

Explosives—Prices on caps, explosives, dynamite, etc., can only be obtained from the nearest factory, on account of prices varying so much in the different zones.

Railway Ties—There is very little business at present, conditions not having changed at all since last month. The railroads are commencing to use up their present stock of ties, and a few requests are commencing to come in for prices on deliveries in 1916. The dealers are not particularly discouraged, as they all have reason to know that their line of business is one of the last to be benefited by better conditions, and are confident that it is only a question of time when they will again be very busy. Freight rates are about the same as they have been, and prices are as follows: First class standard ties, 7x9 in. by 8 ft. 6 in., 73c.; 6x8 in. by 8 ft. at 61c. These prices are f.o.b. New York.

Blue Stone—There is the regular Fall picking up in business in this line, so that the contractors can finish all the work possible before the winter sets in, which is keeping them fairly busy at present, and they all seem to be very optimistic about the future. There seems to be very little large work going on, most of the contracts let being very small, but all dealers are planning for a large business next year when they expect a great many of the large contracts to materialize. Prices are as follows: Bronx flagging 17c. per sq.ft.; Manhattan 18c. per sq.ft.; curbing 5x16 in., 40c. per lin.ft.; 5x20 in. 45c. per lin.ft.; sewer bottoms, 5x5 ft. by 3 in. 25c. per sq.ft.; Belgiam bridging 5x24 in., 65c. per lin.ft.

Glass—The following prices are for window, plate and skylight glass. Plate glass 90%, 40%, 10% off of current list. Window glass single strength 1-3 brackets inclusive B quality, 90% and 30% off; A quality 90 and 20% off. Above the third bracket B quality 90 and 10% off; A quality 90% off. Double strength glass all brackets B quality, 90 and 20% off; A quality, 90 and 10% off. In single strength or double strength AA quality, special prices prevail. On skylight glass ¼ in. wire, rough or ribbed, 14c. per sq.ft. Boxing on above, extra for out of town shipment.

Clay Drain Tile—The local dealers in this line are all of the opinion that business is very good and expected to continue so until cold weather sets in. Prices are as follows:

PER 1,000 SQ.FT.

2 in.	3 in.	4 in.	5 in.	6 in.	8 in.
$17.50	$22.50	$32.50	$47.50	$57.50	$97.50

These prices are in carload lots, f.o.b. New York.

Flue Lining—While business might only be considered fair, prices are well maintained, the present discount being 83% off list. At this rate prices are as follows:

FLUE LINING—PRICE PER FOOT

Size in In.	Weight in Lb.	Price per Ft.	Size in In.	Weight in Lb.	Price per Ft.
4½x 8½	14	$0.06	8½x13	28	$0.114
4½x13	20	0.076	8½x18	45	0.153
4½x18	40	0.17	13x13	38	0.144
7 x 7	15	0.068	13x18	57	0.204
8½x 8½	18	0.076	18x18	75	0.34

Sewer Pipe—Dealers report conditions as very favorable considering the period for the year. They are able to maintain the same prices as a month ago, and the outlook for business appears very encouraging. Discounts are firmly held as follows: On 3 to 24 in., 82% off list is quoted; 27 to 30 in., 72%; 30 to 36 in. At this rate prices are as follows:

PRICE OF SEWER PIPE PER FOOT

Size		Size	
3-in.	$0.045	18-in.	$0.342
4-in.	0.045	20-in.	0.405
5-in.	0.072	22-in.	0.54
6-in.	0.072	24-in.	0.585
8-in.	0.099	27-in.	1.26
10-in.	0.144	30-in.	1.54
12-in.	0.18	33-in.	2.06
15-in.	0.243	36-in.	2.31

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

Connecticut—New York, New Haven & Hartford Railroad plans to double track its Northampton division to complete a stretch of double tracks between New Haven and Westfield. Elmer Gagel, New Haven, Ch. Engr.

New York—International Railway Co., Buffalo, will soon start work on new line on Eleventh St. to College Ave., Niagara Falls. J. C. Sheldon, Buffalo, Pur. Agt. Noted Oct. 22.

Pennsylvania—Baltimore & Ohio Railroad Co. will rebuild its tracks in Johnstown. F. L. Stuart, Baltimore, Ch. Engr.

Delaware—Wilmington & Philadelphia Traction Co., Wilmington, acquired control of Wilmington, New Castle and Delaware City Railway and plans to improve same. T. W. Wilson, Wilmington, Gen. Mgr.

Maryland—L. F. Johnson, Baltimore, interested in electric railway to be built from Hancock, Md., south to Berkley Springs, W. Va., about ten miles.

Maryland—Western Maryland Railway making surveys from point on Baltimore and Ohio Railroad Co. near Hutchinson, W. Va., west to Wyatt, about eight miles, to build line to develop coal fields. H. R. Pratt, Baltimore, Ch. Engr.

North Carolina—Bonds for $50,000 voted to aid proposed line from Topton, N. C., north via Robbinsville and along Cheoah River, about 43 miles. E. Philbrick, Andrews, Ch. Engr. Noted Sept. 23.

Florida—Jacksonville Traction Co., will soon start work on construction of double track through Springfield Park from Pearl to Hogan St., Jacksonville. Hardy Groom, Jacksonville, Local Mgr. and Pur. Agt.

Alabama—Alabama Power Co. received 39-year franchise from City Council to extend line from Sixth and Lapsley St. to Anniston Country Club, Anniston. A. L. Kenyon, Anniston, Mgr. Noted July 29.

Alabama—Montgomery Light and Traction Co. applied to City Council for franchise to extend its line in Montgomery from Day St. terminus west to city limits.

Kentucky—Cumberland Traction Co. has increased its capitol stock from $50,000 to $250,000 and plans to build a railway between Edmonton and Elizabethtown. L. J. Metcalfe, Elizabethtown, Pres.

Kentucky—Louisville, Henderson & St. Louis Railway plans to issue $5,000,000 bonds. Part of proceeds will be used for improvements. F. D. Ferry, Louisville, Pur. Agt.

Kentucky—Southern Railroad will build line through coal and timber districts in Bluefield, W. Va., along border of Kentucky and Virginia, about 65 miles. C. R. Craig, Pur. Agt., Washington, D. C.

Ohio—A company has been formed by N. J. McGuire, R. Faulkner and K. C. Wilson, Indianapolis, Ind., to build traction line between Chillicothe and Hillsboro to be operated by gasoline electric power.

Ohio—Cincinnati, Hamilton & Dayton Railway will double track line from South Dayton to Miamisburg, seven miles. E. H. Bankack, Baltimore, Md., Pur. Agt. Estimated cost, $175,000.

Indiana—Evansville, Chrisney & Eastern Railway plans to build a line from Boonville to Chrisney, about 13 miles, and from Boonville to Lynnville, about 11 miles. J. P. Chrisney, Pres.

Indiana—Ft. Wayne, Decatur & Southern Railroad, recently incorporated, plans to build a line from Decatur to Berne, about 12 miles. Noted Aug. 26. M. Gerke, interested.

Michigan—Surveys being made for electric railway from Muskegon to St. Johns, Mich., about 110 miles.

Illinois—J. E. Melick, 333 South Douglas Ave., Springfield, and associates completed survey for railway between Pearl and Kampsville, 11 miles. Noted Oct. 22.

Iowa—Inter-Urban Railway of Des Moines plans to build an extension of its line from Colfax to Newton, via Metz, about 12 miles. F. M. Harris, Des Moines, Pur. Agt.

Iowa—Muscatine & Iowa City Railway Co. leased lines of Muscatine & Western Railroad Co. and will electrify same between Muscatine and Iowa City. C. D. Van Hecke, Gen. Mgr.

Missouri—Citizens of St. Charles contemplate electric railway. Estimated cost, $50,000.

Arkansas—Press reports state that Iron Mountain Railroad will build branch line from Buffalo to Rush, Ark. W. L. Cole, Keswick, Calif., Gen. Mgr.

Texas—Vernon L. Sullivan, Ft. Stockton, interested in construction of railway from Garvin, Tex., or some point on Kansas City, Mexico & Orient, northwest to connect with Texas & Pacific at Pecos or Barstow, about 80 miles.

Texas—Franchise granted to Dallas Southwestern Traction Co. and Dallas Northwestern Traction Co. for line from Dallas southwest via Cleburne and Glen Rose to Stephenville about 80 miles, and from Dallas to Denton, about 30 miles. E. P. Turner, Gaston Bldg., Dallas, Pres. Noted Oct. 21.

Texas—Gulf, Texas & Western Railway contemplates extending its line from Jacksboro to Ft. Worth, about 35 miles. Benjamin B. Cain, Dallas, Vice-Pres. and Gen. Mgr.

Texas—Charles E. Schaff, receiver of Missouri, Kansas & Texas Railway Co., applied to Federal Court for permission to purchase 15,000 tons of 85 lb. steel rails for relaying 115 miles of track of system in Texas. W. E. Williams, Parsons, Kan., Gen. Mgr.

Oklahoma—Choctaw Railway and Lighting Co. plans extension of line from Hartshorn to Gowen and Wilburton. L. E. Fisher, St. Louis, Mo., Vice-Pres. and Gen. Mgr.

Idaho—G. A. Branson will build two mile spur from Chicago, Milwaukee & Puget Sound Railroad Co. near Santa, to St. Maries Lumber Co.

Washington—Lewistown & Clarkston Transit Co. has applied to Board of County Commissioners of Asotin County for franchise to extend line in Clarkston.

Oregon—Oregon Electric Railway Co. will build spur track to warehouse of Allen & Lewis Co., Eugene, Ore. W. D. Scott, Portland, Gen. Mgr.

Oregon—Pacific Power and Light Co. applied to City Council for 30-year franchise to extend line on Franklin Ave., Astoria. James E. Davidson, Portland, Gen. Mgr.

Quebec—Surveys being made for branch line of Quebec and Lake St. John Railway from Lorettville to Stonehamm, about 9½ miles.

Ontario—Canadian Pacific Railway Co. plans industrial spur for Graves, Bigwood, Co., Sudbury, about 52.6 miles. J. M. R. Fairbairn, Montreal, Asst. Ch. Engr.

Saskatchewan—Grand Trunk Pacific Railway Co., has been authorized by Railway Commissioners to build line to Board of Grain Commissioners' elevator, Moose Jaw. H. A. Woods, Winnipeg, Man., Asst. Ch. Engr.

Bids In and Contracts Awarded

North Carolina—Contract awarded by Piedmont and Northern Railway Co. to CHARLOTTE CONSTRUCTION CO., for branch line from Belmont Junction to Belmont, about four miles. Noted Oct. 21.

Texas—Midland & Northwestern Railway awarded contract to J. A. HUNTER, Strawn, Tex., for grading from Midland, Tex., through Andrews County to Seminole, Gaines County, 65 miles. G. W. Thaxter, Ch. Engr., T. J. O'Donnell, Midland, Tex., Pres.

California—Spanish Peak Lumber Co., Quincy, awarded contract to UNITED STATES STEEL PRODUCTS Co., at $35,536, for tramway from Spanish Ranch to Gray's Flat, about 6 miles.

LIGHT, HEAT AND POWER

Proposed Work

Mass., Pittsfield—Pittsfield Coal Gas Co. plans to extend its mains about 13 miles. Estimated cost, $41,000.

Conn., Manchester—Cheney Bros. plan power plant on south side of Hartford Rd.

N. Y., Batavia—Plans being considered for improving electric-light plant. Estimated cost, $22,737.

Penn., Ridgway—Plans being considered by Ridgway Electric Light Co. to issue $15,000 capital stock to extend and improve its plant.

Md., Easton—Newton Electric Co. plans electric transmission system from Easton to Oxford, about 15 miles.

Va., Atkins—Plans being considered by D. P. Musser for electric-light plant.

N. C., Salisbury—Plans being considered by Southern Power Co., Charlotte, for enlarging and improving its plant.

N. C., Wilmington—Tidewater Power Co. plans an expenditure of from $50,000 to $60,000 to extend gas service from Wilmington to Wrightsville Beach and seven other towns, also to build several stations.

Ga., Graymont—City retained W. Hopson Goodloe, Macon, Ga., to prepare plans and supervise construction of electric-light plant to be built by Graymont and Summit. Estimated cost, $10,000. Noted Oct. 7.

Ala., Bessemer—Plant of Bessemer Gas Co. purchased by Birmingham Railway, Light and Power Co., who plan to improve and extend same.

Miss., Utica—Plans being prepared by X. A. Kramer, Magnolia, for electric-light plant.

Tenn., Mason—According to press reports a company is being organized to construct an electric-light plant.

Ky., Louisville—Lyndon Country Club is back of a movement to construct an electric-light plant in Louisville.

Ky., Whitesburg—Wiley W. Gibson & Son, Mater, contemplates electric-light plant.

Ohio, Lima—An expenditure of $23,000 planned by Cincinnati, Hamilton & Dayton Railroad for new power plant.

Ind., Oldenburg—Bids being received for a power house at convent of Sisters of St. Francis, Oldenburg. Estimated cost, $20,000. J. J. Reuckert, 8 Allen Bldg., Cincinnati, Ohio, Arch.

Ill., Chicago—U. S. Ball Bearing Co., 2147 North Kolmar Ave., will build a one-story brick power house. Estimated cost, $15,000.

Ill., Galesburg—See item under "Water Works."

Minn., Raymond—(Official)—City will construct light and power station under supervision of Minnesota Valley Power Co. Estimated cost, $5,000. Noted Oct. 21.

Kan., Oakley—Bids will be received until 7.30 a.m., Nov 23, by J. A. Switzer, City Clk., for constructing a power plant. G. P. Taylor, Stockton, Engr.

S. D., Ashton—F. W. Boyle, Garden City, interested in Spink County Power Co., recently organized, to furnish light and power to Ashton and other towns.

Mo., Bevier—Bonds for $12,000 voted for purchase of electric-light plant. Noted Oct. 14.

Mo., Maplewood—Western Light and Power Co. granted franchise by City Council to operate electric-light plant.

Mo., Springfield—Election will be held to vote on bonds for electric-light plant.

Ark., Mountain Home—L. J. Goodrich and D. Undergill, Mountain Home, and H. M. Tatum, Sparkman, granted franchise for electric-light plant.

Tex., Austin—Plans prepared for concrete and brick power house for Austin St. Railway Co. Estimated cost, $5,000.

Tex., Beeville—Preliminary plans being prepared by Bartlett & Raney, Consult. Engr., San Antonio, for electric-light plant.

Tex., Sherman—Election will be held to vote on $150,000 bonds for electric-light plant, water system and street improvements.

Idaho, Rockland—G. B. Hodgin and Marsh & Stite have applied to State Public Utilities Commission for permit to construct electric-light system.

Wash., Ellensburg—City Council plans an expenditure of $60,000 for improving municipal power plant.

Calif., Colton—Edison Electric Co. will build an addition to its transformer station.

Bids In and Contracts Awarded

Penn., Manayunk—ELMER L. CUTHBERTSON awarded contract for one-story, 70x98-ft. boiler house for Ripka Mills Co.

Ga., Toccoa—Contracts for electric-light plant awarded to J. G. PHILLIPS, at $9,565, for dam, power house and flue lines and to WALKER ELECTRIC AND PLUMBING CO., at $15,185, for transmission lines and substations. Noted Oct. 7.

La., Lake Charles—Contract for gas plant and distribut'ng system awarded to AMERICAN GAS CONSTRUCTION CO., Chicago, Ill. Estimated cost, $100,000. Noted Oct. 21.

Kan., Attica—(Official)—Contract for improving electric-light plant awarded to BICKEL CO., Kansas City, Mo. Noted Sept. 23 and Oct. 21.

Kan., Atwood—Contract for municipal electric-light plant awarded to F. D. MARTIN CONSTRUCTION CO., 407 Rialto Bldg., Kansas City, Mo., at $11,727. Noted Sept. 30.

BRIDGES

Proposed Work

R. I., Woonsocket—(Official)—Bids will be received by Board of Alderman, Alderman's Chambers, City Hall, until 8:15 p.m., Nov. 23, for building three reinforced-concrete bridges. Noted Oct. 28.

N. Y., Oswego—Bids will soon be received for bridge over Oswego River at Minetto. State has appropriated $50,000 toward cost.

N. J., Plainfield—An expenditure of $9,500 planned for constructing a number of bridges.

Penn., Wilkes-Barre—Bids will be received by Fred H. Gates, City Clk., until noon, Nov. 5, for reinforced-concrete bridge over Solomon's Creek on Barney St.

W. Va., Welch—Proposition submitted to Town Council by Norfolk & Western Railway for bridge across Elkhorn River. J. E. Crawford, Roanoke, Va., Ch. Engr.

Fla., Merritt—City contemplates bond issue for bridge from Cocoa to Merritt.

Ala., Mobile—See item under "Streets and Roads."

Miss., Meridian—Bids will be received by J. O. Wise, Secy. of Good Rds. Comn., until 11 a.m., Nov. 9, for reinforced-concrete bridge.

Tenn., Crossville—Commissioners of Cumberland County will construct reinforced-concrete bridge at Sutton Ford.

Tenn., Nashville—Nashville, Chattanooga & St. Louis Railway and Nashville Railway and Light Co. plan to build viaduct over tracks of Nashville, Chattanooga and St. Louis Railway at Cedar St. Estimated cost, $48,000.

Ohio, Lowellville—Bids will be received until noon, Nov. 15, for purchase of $5,000 bonds for bridge over Mahoning River.

Ohio, Upper Sandusky—(Official)—Bids will be received by Jay Marguerat, County Audr., until noon, Nov. 12, for superstructure of bridge over Sandusky River, Tymochtee Township. Noted Oct. 21.

Ill., Taylorville—(Official)—Bids will be received by C. A. Penington, County Supt., until 10 a.m., Nov. 8, for steel bridge in Bear Creek Township, Christian County.

Wis., Omro—Report submitted by Engineers of State Highway Commission estimating cost of bridge over Fox River at $30,000.

Kan., Salina—(Official)—Bids will be received until noon, Nov. 11, by R. C. Anderson, County Clk., for bridges over Smoky River. Noted Oct. 21.

Kan., Topeka—Commissioners of Shawnee County contemplate an expenditure of $30,000 for new bridges.

Kan., Wathena—City will build concrete arch bridge estimated to cost $6,500.

Neb., Lincoln—Bridge will be constructed at Parshall crossing about five miles south of Butte by Commissioners of Boyd and Holt Counties. Estimated cost, $25,000.

S. D., Yankton—Election will be held Nov. 9 to vote on $300,000 bonds for bridge across Missouri River at Yankton. Noted Oct. 21.

Mo., Lexington—See item under "Streets and Roads."

Tex., Austin—See item under "Streets and Roads."

Tex., Ft. Worth—Plans approved for reinforced-concrete bridge over Deer Creek. Bids will soon be received for same.

Tex., Graham—See item under "Streets and Roads."

Tex., Marshall—Election will soon be held to vote on $50,000 bonds for viaduct over tracks of Texas and Pacific Railway. T. E. Hilliard, City Engr.

Okla., Talihini—See item under "Streets and Roads."

Okla., Vinita—Election will be held Nov. 16 to vote on $50,000 bonds for 17 bridges.

Idaho, Parma—Bids will be received by County Commissioners, Caldwell, until Nov. 22, for steel bridge over Boise River at Parma. Estimated cost, $17,000. Inland Engineering Co., Caldwell, Engr. Noted Oct. 7.

Wash., Metaline Falls—Plans being considered by County Commissioners for steel bridge over Pend O'Reille River between Metaline Falls and Metaline. Estimated cost, $10,000.

Wash., Seattle—Northern Pacific Railroad Co. plans to start work soon on pile trestle connecting present right-of-way with Plummer St. grade. Estimated cost, $25,000.

Ore., Salem—Plans being considered by County Court for steel bridge. Estimated cost, $90,000.

Calif., Bakersfield—Bids will be received by H. A. Jastro, Chn., Bd. of County Supervs., until Nov. 8, for bridges and culverts on Division 10, Section 7, Bakersfield-Mojave Rd.

Calif., Pomona—See item under "Streets and Roads."

Calif., Riverside—Plans being prepared by C. B. Wright, Engr., Rialto, for reinforced-concrete bridge on Fairmont Blvd. for Crescent City Railway Co. Estimated cost, $10,000.

Calif., Sacramento—Plans accepted by City Commission for bridge over Arcade Creek in De Paso Park.

Bids In and Contracts Awarded

Mass., Boston—All bids received Oct. 19 for pile bridge and approaches in Edgartown and Oak Bluffs rejected.

Conn., New Hartford—SPAULDING CO., Suffield, at $8,000, awarded contract for superstructure of bridge at Satan's Kingdom. Noted Oct. 21.

Penn., Sharon—Contract for bridge across Shenango River at State St. awarded to CANTON BRIDGE CO., Canton, Ohio, at about $49,990. Noted Sept. 23.

S. C., Greenville—Contract for bridge across Saluda River on double track between Greenville and Central for Southern Railway awarded to BAILEY CONSTRUCTION CO., Chattanooga, Tenn. Noted Sept. 30.

Fla., Monroe—Contract for bridge across St. Johns River at Monroe awarded to VIRGINIA BRIDGE AND IRON CO., Roanoke, Va., for steel work, and to BEASLEY CONTRACTING CO., Savannah, Ga., for approaches and foundations. Atlantic Engineering Co., Savannah, Ga., Engr. Noted Oct. 14.

Ky., Covington—Bids were received Oct. 28 for bridge piers for bridge to carry duplicate supply main of Licking River at a point approximately 150 ft. south of Louisville and Nashville Railway bridge as follows: C. E. Harris, Covington, Bates & Rogers Construction Co., Chicago, Ill. and D. P. Foley, Cincinnati, Ohio. Noted Oct. 21.

Ohio, Columbus—(Official)—Contract for substructure of Brown Bridge awarded to WILLIAM F. SCHWARTZ, 2634 West Broad St., Columbus, at $4,336.

Ohio, Columbus—(Official)—Contract for constructing approaches to Chenoweth Mill Bridge awarded to PURDUM & SCHWARTZ, 2634 West Broad St., Columbus, at $5,323. Noted Oct. 7.

Ind., Anderson—(Official)—Contract for two additional steel spans for bridge across White River on North Main St. awarded to ELKHART BRIDGE AND IRON CO., Elkhart. Estimated cost, $9,000. Noted Sept. 23 and Oct. 21.

Ind., Indianapolis—DUNN-McCARTHY CONSTRUCTION CO., Chicago, Ill., at $146,378, awarded contract for bridge over Fall Creek at Meridian St.

Mich., Detroit—Contract for temporary Belle Isle Bridge awarded to GEORGE R. COOK, Detroit, at $92,225. Noted Aug. 19 and Sept. 16.

Mich., Spring Lake—Contract for reinforced-concrete bridge over Petty's Bayou in Spring Lake Township awarded to C. M. BLAKESLEE.

Iowa, Humboldt—Contracts for bridge work awarded to HUMBOLDT CEMENT PRODUCTS MFG. CO., Humboldt, for group A, C, D and E, and to KOSS CONSTRUCTION CO., Des Moines, for group B. Estimated cost, $33,000.

Kan., Beloit—County Commissioners rejected all bids for N. H. White bridge across Labon Creek. T. H. McCall, County Clk.

Kan., Concordia—(Official)—Contract for 11 reinforced-concrete bridges awarded to JAMES BOHAMON, Glasco, at $8,899. Noted Oct. 14.

Kan., Mankato—(Official)—Contract awarded to WESTERN BRIDGE CO., Harrisonville, Mo., at $4,549, for steel truss bridge with 80-ft. span and 16-ft. roadway. Noted Oct. 21.

Nebr., Lincoln—(Official)—Contract for bridge over Oak Creek Channel awarded to LINCOLN CONSTRUCTION CO., Lincoln, at $12,850. A. H. Edgrem, Engr. Noted Oct. 14.

Mont., Sheridan—Contract for steel bridge over Tongue River north of Sheridan awarded to SECURITY BRIDGE CO., Billings.

Mo., Independence—Contract for steel bridge in Section 19 awarded to FOX-REDPATH CONSTRUCTION CO., 922 New York Life Bldg., Kansas City, Mo., at $4,219.

Ark., Little Rock—Contract for reinforced-concrete viaduct over tracks of Chicago, Rock Island & Pacific Railway at Second St. awarded to FOX CONSTRUCTION CO., Little Rock. Estimated cost, $35,000. H. R. Shields, Div. Engr.

Tex., Floresville—Contract for bridge across Calaveras Creek on San Antonio-Floresville Rd. awarded to ALAMO CONSTRUCTION CO., San Antonio. Estimated cost, $10,000.

N. M., Roswell—Contract for bridge over the Rio Feliz near Hagerman awarded to MIDLAND BRIDGE CO., Kansas City, Mo., at $11,000. Noted Oct. 7.

Idaho, Boise—Contract for bridge work on state highway through Cassia County awarded to CHARLES MULL, Twin Falls, at $15,300.

Wash., Aberdeen—All bids received for West Toll Bridge over Chehalis River rejected. Noted Aug. 26 and Sept. 23.

Wash., Spokane—BEERS BUILDING CO., Smith Bldg., Seattle, at $18,888 and $15,555, awarded contract for steel bridge over Middle Channel at Howard St. and approach to south end of Monroe St. bridge.

Ore., Portland—Contract for viaduct near Bertha Station awarded to HEINEKE BROS., at $7,611.

Calif., Bakersfield—Contract for bridges on McKittrick Rd. awarded by Board of Supervisors of Kern County to M. T. KEAN, at $12,350.

Calif., Madera—(Official)—Contract for bridge across Fresno River awarded to MANNING BROS., Fresno, at $9,470. Noted Oct. 7. W. C. Utter, City Clk.

WATER WORKS

Proposed Work

Mass., Fall River—(Official)—Special Commission on Watuppa Ponds and Quequechan River water supply recommend improvement of Watuppa Ponds and Quequechan River. Action will probably not be taken till spring. Fay, Spofford & Thorndike, 308 Boylston St., Boston, Engr. Noted Oct. 21.

N. Y., Batavia—Chester & Fleming, Engr., Pittsburgh, Penn., estimates cost of pumping station and filtration plant at $135,000.

N. Y., Hudson Falls—Citizens voted against issuing bonds for $270,000 for water system. Noted Sept. 2.

N. Y., Minoa—City contemplates issuing $28,000 bonds for water system.

N. Y., New York—(Borough of Brooklyn)—(Official)—Bids will be received by William Williams, Comr. of Water Supply, Gas and Electricity, Room 2351, Municipal Bldg., New York, N. Y. (Borough of Manhattan), until 2 p.m., Nov. 12, for furnishing, delivering, unloading, stacking and storing cast-iron pipe.

N. J., Jersey City—(Official)—Bids will be received until 2 p.m., Dec. 2, by City Commissioners for laying about 11 miles of 72-in. steel pipe from Brooksdale to Jersey City and laying twin pipe line under Passaic and Hoboken Rivers. Noted Sept. 30.

N. J., New Brunswick—City contemplates new dam about 200 ft. above present one. Estimated cost, $20,000.

N. J., Vetnor City—(Official)—Bids will be received until 8 p.m., Nov. 22, by Common Council for mechanical equipment for artesian water works. E. Steelman Royal, City Clk. (See adv.)

Penn., Dalmatia—(Official)—Dalmatia Water Co. has had plans approved by State Department of Health for water system.

Penn., Halifax—(Official)—State Department of Health issued permits to Halifax Water Co. for repairs and extensions to spring collecting system.

Penn., Hanover—(Official)—Hanover & McSherrystown Water Co. has plans for additions to reservoir.

Penn., Juniata—State Department of Health approved plans for intake dam for municipality.

Penn., Kittanning—Borough of Kittanning petitioned Public Service Commission for permit to build water system.

Penn., Royersford—(Official)—Home Water Co. has had plans approved by State Department of Health for filtration plant, pumping station and force main.

Del., Wilmington—Water Board petitioned Council for appropriation of $35,000 for extension of underground work.

Va., Norfolk—Contract will soon be awarded for repairs or restoration of three earth dams including protective measures and substitution of concrete spillways for present ones of wood. Estimated cost, $56,000. W. H. Taylor, Jr., City Engr. Noted Oct. 14.

Va., Waverly—(Official)—Citizens defeated $55,000 bonds, part of proceeds of which was to be used for water system. Noted Oct. 28.

W. Va., Clarksburg—(Official)—Bids will be received until noon, Nov. 26, by Water Works and Sewerage Board for installing two gas engines and two pumps at the pumping station. Noted Sept. 23. (See adv.)

Fla., St. Augustine—Plans will be prepared by C. E. Henderson, City Engr., for water system. Noted Oct. 28.

Tenn., Kingsport—City contemplates water system. W. C. Hattan, Engr.

Tenn., Tiptonville—Citizens voted $7,500 bonds for sewer and water systems.

Ohio, St. Clairsville—Bids will be received until Nov. 15 by Emerson Campbell, County Audr., for repairing reservoir at Belmont County Infirmary.

Ohio, Upper Sandusky—Chester & Fleming, Pittsburgh, Penn., retained by water company to prepare plans for installation of low service pump.

Mich., Albion—Election will be held Oct. 9 to vote $10,000 for completing municipal water system.

Mich., Leslie—Plans being prepared by A. H. Smith Co., Engr., Toledo, Ohio, for water system.

Mich., Quincy—Plans being prepared by A. H. Smith Co., Engr., Toledo, Ohio, for water system.

Mich., Sparta—Plans being prepared by Rumsey & Works, Consult. Engr., Grand Rapids, for water tank and tower.

Ill., Galesburg—(Official)—Citizens voted $95,000 bonds for water system and electric-light plant. Noted Oct. 14.

Ill., Mackinaw—Melluish & Broyhill, Mackinaw, prepared plans for remodeling and improving water system. Noted Sept. 30.

Iowa, Holstein—Citizens voted $18,000 bonds for water system. Bids for sale of same will be received until Nov. 16. Albert G. Merkley, City Recdr.

Kan., Lawrence—Citizens will vote again on $175,000 bonds for purchase and improvement of water system. E. H. Dunmire, City Engr.

Kan., Oswego—Election will be held Nov. 12 to vote on bonds for extension and improvement of water system. J. F. Waskey, Clk. Noted Aug. 19.

Neb., Bayard—Bids will be received by City Clerk until Nov. 11 for 13,200 lin.ft. of 4- to 8-in. c.-i. water mains.

Wyo., Thermopolis—Citizens voted $40,000 bonds for water system.

Mont., Glendive—Plans being prepared by Burns & McDonnell, Consult. Engr., Scarritt Bldg., Kansas City, Mo., for improving water system and filtration plant. Estimated cost, $70,000. Noted Oct. 21.

Mont., Three Forks—Bonds will soon be sold for improvement of water-works system.

Ark., Dardanelle—City plans expenditure of $15,000 for improving water system.

Ark., Malvern—Work will be started about Jan. 1 on installation of water system. Estimated cost with proposed sewerage system, $100,000.

Tex., Sherman—See item under "Light, Heat and Power."

Tex., Temple—City Water Commissioners plan expenditure of $6,000 for improving municipal pumping station.

Okla., Tulsa—Election to vote on $600,000 bonds for storage basin at mouth of Shell Creek postponed from Nov. 2 to Nov. 23. Noted Oct. 14.

Idaho, Aberdeen—Public Utilities Commission, Boise, approved installation of municipal water system. Noted Oct. 7.

Idaho, Twin Falls—City will purchase plant of Twin Falls Water Works Co. Estimated cost, $80,000.

Wash., Metaline—Franchise granted to Harry Lincoln, Metaline, to build water system. Estimated cost, $15,000.

Wash., Seattle—D. Huntington, City Arch., authorized to prepare plans for standpipe on Beacon Ave. near Fountain St. Estimated cost, $50,000.

Calif., Santa Cruz—Election will be held Nov. 6 to vote on $100,750 bonds for purchase of F. A. Hihm Co. water system. Noted Oct. 21.

N. B., St. John—Extensions will be made to water mains in Portland Pl. Estimated cost, $4,600. R. W. Wigmore, Comr.

Ont., Tecumseh—Plans being prepared by Tecumseh Water Works Co. for new water system. Estimated cost, $25,000.

Ont., Toronto—Bids will be received by Board of Control until Nov. 9 for valves, steam piping, steel castings and lagging for main pumping station.

Bids In and Contracts Awarded

N. Y., New York—(Official)—Board of Water Supply awarded contract to NORTHEASTERN CONSTRUCTION CO., 225 Fifth Ave., New York, for two steel frame buildings for drainage chambers, Shafts No. 11 and 12, Catskill Aqueduct, under Contract No. 166. Noted Oct. 28.

N. Y., New York—(Official)—Bids were received Oct. 26 by Board of Water Supply, Municipal Bldg., for buildings at Uptake and Downtake chambers of Hill View reservoir as follows: William H. Egan, Lexington Ave. and 125th St., New York, $94,409; Marble Arch Co., $96,500, and Louis Wechsler, $98,650. Noted Oct. 14.

S. C., Spartansburg—Contract awarded by Water Works Commissioners to HAMILTON MFG. CO., Hamilton, Ohio, at $13,000, for engine and pump for main pumping station. Noted Oct. 14.

Ky., Shelbyville—Contract for filtration plant awarded to NEW YORK CONTINENTAL JEWEL FILTRATION CO., New York, N. Y., at $15,000.

Ohio, Cleveland—Contract awarded to ALABAMA PIPE & FOUNDRY CO., at $8,748, for valve boxes for Department of Public Utilities, Division of Water. Noted Sept. 30.

Ohio, East Liverpool—Contracts for water system awarded as follows: Filter equipment for 6,000,000-gal. mechanical filter to PITTSBURGH FILTER MANUFACTURING CO., Pittsburgh, at $44,324; standpipe to MEMPHIS STEEL CONSTRUCTION CO., at $2,887. Chester & Fleming, Pittsburgh, Penn., Engr.

Iowa, Germania—(Official)—Contract for laying water mains and constructing water system awarded to C. W. ROLAND CO., Des Moines, at $8,041. Noted Oct. 28.

Iowa, Kanawha—Contract awarded to DES MOINES BRIDGE AND IRON CO., at $7,293, for 30,000-gal. steel tank on an 80-ft. tower and 7000 ft. of 4- to 6-in. water main. Noted Sept. 30.

Tex., Galveston—(Official)—All bids received for reconstructing 36-in. submerged water main rejected. A. T. Dickey, City Engr. Noted Sept. 23 and Oct. 7.

Calif., Los Angeles—John G. Gardiner, Byrne Bldg., at $21,938, low bidder, for pipe line in Los Angeles County Water Works District No. 1.

Calif., Sacramento—City Commission awarded contract for concrete chamber at water-works to TEICHTER & AMBROSE, at about $16,000.

Ont., Markham—Contract awarded to NATIONAL IRON WORKS, LTD., Cherry St., Toronto, at $5,750 for pipe, hydrants and valves for water system. Noted Oct. 21.

SEWERS

Proposed Work

Mass., Bridgewater—Citizens voted $10,000 toward constructing a sewer system.

Conn., Windsor Locks—Residents of Wilsons Station voted to form sewer district and will build sewer estimated to cost $12,000.

N. Y., Buffalo—City plans sewers in Exeter Terrace and Camden and North Park Ave.

N. Y., New York—(Borough of Bronx)—(Official) — Bids will be received by Douglas Mathewson, Borough Pres., Municipal Bldg., Crotona Park, 177th St. and Third Ave., until 10:30 a.m., Nov. 11, for sewers in Starling Ave. between Olmsted Ave. and Unionport Rd., Unionport Rd. between Starling and McGraw Ave., between Unionport Rd. and Pugsley Ave. Noted Oct. 21.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids will be received by Marcus M. Marks, Borough Pres., Municipal Bldg., New York, until 2 p.m., Nov. 10, for making repairs to barrel and box sewers at foot of 26th St. and North River, foot of 37th St. and East River, and foot of 110th St. and East River.

N. Y., Rochester—City will issue $100,000 bonds for sewage-disposal plant.

N. J., Garfield—Anton L. Petersen, Engr., preparing plans for sewer system in Arving Pl. Bids will be received by Frank V. Romaglia, Borough Clk.

Va., Newport News—Board of Alderman contemplates $500,000 bond issue for sewers, sewer purification plant, etc.

Va., Waverly—(Official)—Citizens defeated $55,000 bond issue. Part of proceeds was to be used for sewage-disposal plant. Noted Oct. 28.

S. C., Greenwood—Bids will be received until Nov. 10 for 10,000 ft. of 12- to 29-in. storm sewers. A. S. Hartzog, Mayor.

Ga., Savannah—Plans being considered for trunk sewer to dispose of drainage in western section of city. E. R. Conant, Ch. Engr. Citizens recently voted $400,000 bonds for storm sewer system and house drainage.

Fla., Miami—Bids will be received by W. B. Moore, City Clk., until Nov. 8, for sewer construction in Districts Nos. 1, 2 and 3. Bonds for $50,000 sold for this purpose. Noted Aug. 19 and Sept. 16.

Fla., Monticello—City engaged J. B. McCrary Co., Atlanta, Ga., to prepare plans for sewer system.

Tenn., Tiptonville—See item under "Water Works."

Ohio, East Youngstown—Bids will be received until noon, Nov. 12, by Village Clerk for purchase of $45,000 bonds for sewers and roads.

Ohio, Sandusky—Bids will be received by John J. Molter, Dir. of Pub. Ser., until Nov. 18, for intercepting sewer No. 2. Estimated cost, $98,000. Noted Sept. 16.

Ill., Chicago—Bids will be received by John McGillan, Clk., Sanitary District, 700 South Michigan Ave., until Dec. 2, for Calumet Intercepting Sewer, Contract No. 4. Noted Oct. 7.

Ill., Elgin—Sewage-disposal plant estimated to cost $60,000 will be constructed. Morgan H. Brightman, City Engr.

Ill., Fairbury—City Council contemplates sewer system. G. Lemon, Clinton, probable Engr.

Iowa, Oskaloosa—Plans being prepared by Block & Veatch, Kansas City, Mo., for sewer system. Noted Aug. 12.

Minn., St. Paul—(Official)—Bids will be received by August Hobenstein, Pur. Agt., Courthouse and City Hall, until 10:30 a.m., Nov. 8, for sewer on West Sixth St. Noted Sept. 30.

Minn., St. Paul—City Council authorized construction of sewer in Capitol Ave. Estimated cost, $127,360.

Neb., Hastings—Bids will soon be received for sewers in Burlington Ave. between Ninth and 12th St., Second St. between Briggs and Baltimore St., Fourth St. between Briggs and Oswego St.

N. D., Grand Forks—(Official)—Bids will be received by W. H. Alexander, City Audr., until 10 a.m., Nov. 6, for Lateral Sewers No. 18, Sewer District No. 5.

Tex., Waco—Citizens defeated $15,000 bonds for extension of sewer system and $75,000 bonds for sewage-disposal plant. Noted Sept. 30.

Idaho, Bonners Ferry—Local Sewer Improvement District No. 1 created by Council for sewer system and disposal plant. Estimated cost, $29,000. C. T. Laschinger, Clk. Noted Sept. 9.

Idaho, Kellogg—Plans being prepared for sewer system in Pressley addition. Estimated cost, $10,000. Noted Oct. 21.

Wash., Seattle—Plans being considered by Committee of Streets and Sewers for sewer system in Rainer Valley. Estimated cost, $1,000,000. A. H. Dimock, City Engr.

Wash., Seattle—Committee of Streets and Sewers of City Council recommended installation of sewers in Sixth Ave., N. W. Estimated cost, $95,052.

Calif., Pomona—Election will be held in November to vote on $15,000 bonds for storm drains in North Garey, Fulton Rd., San Antonia and Alexander Ave.

Calif., Salinas—City contemplates storm sewer system. Estimated cost, $40,000.

Calif., Willows—New sewer district will be formed including all parts of Willows not included in District No. 1. Estimated cost, $35,000. John P. Ryan, City Engr.

Ont., Ottawa—(Official)—R. S. & W. S. Lea, Consult. Engr., Montreal, submitted report on Rideau River Intercepting sewer. Estimated cost, $400,000.

Ont., Toronto—Bids will soon be received for sewers on Adrian, Campbell, Linder Ave. and Miller St. T. L. Church, Chn., Bd. of Control.

Bids In and Contracts Awarded

Mass., Haverhill—(Official)—City will build trunk sewer through North Ave. from head of Marsh Ave. to point near Snows Brook to Primrose St. by day labor. Estimated cost, $13,400. Noted Oct. 28.

N. Y., Rochester—Contracts for sewer construction awarded as follows: Thomas Creek overflow sewer to WHITMORE, RAUBER & VICINUS, at $15,805, Clinton Ave., N., to FRANK LACHIUSA, at $8,772.

N. J., Bayonne—Contract for sewer in East 22nd St. awarded to CHARLES CAVANAUGH, at $19,999.

N. J., Bound Brook—Contract for sewer in Central Ave. awarded to JOHN McNABB. Estimated cost, $16,000.

N. J., Verona—Contracts for sewers and sewage disposal plant (a) Section 1, (b) Section 2, (c) Section 3, (d) Section 4, (e) Sewage disposal plant, awarded as follows: (a) PETRO SCOLO, Glen Ridge, at $31,232; (b) DONATO FUSCO, Montclair, at $17,801; (c) FRANK CARROZA, Baltimore, Md., at $21,632; (d) CARDELL & ROMANO, Montclair, at $17,796; (e) P. L. BRAUNWORTH, Montclair, at $37,292. Noted Sept. 9 and 30.

W. Va., Parkersburg—Contract for six sewers awarded to C. KENNEDY & SON and three to ARTHUR LYONS. Noted Aug. 12.

Ga., Gainesville—Contract awarded to A. P. STEWART for filter plant for sewer system.

Ohio, Cheviot—(Official)—Contract awarded to the J. RUEBEL CONSTRUCTION CO., Cincinnati, for trunk sewer in ravine east of Glenmore Ave., in North Glenmore Ave. Noted Oct. 7.

Ohio, Cincinnati—Contract for sewers in District No. 6 awarded to WORTH & BLESSING, at $30,829.

Ohio, East Liverpool—(Official)—Contract for sanitary sewers awarded to J. W. RYAN & SON, East Liverpool. Noted Oct. 14.

Ind., Indianapolis—Contract for sewer in Michigan St. between Pleasant Run and De Quincy St. awarded to AMERICAN CONSTRUCTION CO., at $26,499.

Ind., Indianapolis—Contract awarded to GEORGE SCHAUER & SON, at $14,256 for sewer in Germania Ave. and first alley west of Mount St.

Mich., Menominee—(Official)—City will build storm sewers by day labor. Noted Oct. 21.

Ill., Marion—Contract for sewage-disposal plant awarded to HOEFFKEN BROS. CONSTRUCTION AND SUPPLY CO., at $7,267.

Wis., Caledonia—Contract awarded to NATIONAL TILE CO., at $15,500 for 18,275 ft. of vitrified drain tile.

Wis., Manitowoc—Contract awarded to T. H. PITZ, at $6,220 for sewers.

Wis., Plymouth—PETER BORST, Port Washington, at $7,569, awarded contract for 11,800-ft. of 6- to 12-in. sanitary sewers.

Iowa, Ames—Contract awarded to DEARBORN CONSTRUCTION CO., Waterloo, at $70,500 for storm and sanitary sewers.

Iowa, Burlington—Bids received by engineer and Councilman Cockrell for sewer in Mt. Pleasant St. as follows: M. M. Daly, $1.225 per lin.ft.; George Peterson, $1.15 and Charles W. Holmes, $1.37.

Iowa, Charles City—Contract for storm sewer system awarded to C. L. HANSON, at $6,788. Noted Oct. 14.

Iowa, Davenport—Contracts awarded by Board of Public Works to HYDRAULIC CONCRETE AND CONSTRUCTION CO., for sewers in Pleasant and Howell St. and to T. J. O'HARA, for sewer in Boise St.

Iowa, Esterville—All bids received Oct. 4 for sewer in North Sixth St. rejected. Noted Sept. 30.

Iowa, Ida Grove—Contract awarded to F. E. WEST, Sioux City, at $5,451, for Old Town sewer.

Iowa, Pella—Contract awarded to HENRY REES, Quincy, Ill., at $9,217, for 14,500 ft. of sanitary sewer. Noted Oct. 14.

Minn., South St. Paul—O'NEILL & PRESTON, at $25,400, awarded contract for sewer pipes on Third Ave. and Third St., S. Noted Sept. 23.

Neb., Lincoln—(Official)—Contract awarded to ABEL & ROBERTS, First National Bank Bldg., Lincoln, at $35,240, for Antelope Conduit for city. Noted Oct. 21.

Neb., Omaha—Contract awarded to PUBLIC SERVICE CO., Krug Theater Bldg., Omaha, for sewers in 43d and Leavenworth St. Estimated cost, $12,000.

Tex., Beaumont—(Official)—Contract for sanitary sewers awarded to the H. W. CARDWELL CONSTRUCTION CO., at $21,716. Noted Oct. 30.

Calif., Compton—Contract for municipal sewer system in Compton awarded to JAMES KENNEDY, Washington Bldg., Los Angeles, at $42,462. Noted Oct. 28.

Calif., Stockton—Contract awarded to A. B. MUNSON & SON, Stockton, at $26,007, for storm water sewer in Main St. to take place of North St. Canal.

Que., Hull.—Contract for sewer construction awarded to J. DUFRESNE, 16 Champlain St., Hull, at $56,000.

Ont., St. Thomas—Contracts awarded to A. E. PONSFORD, LTD., for septic tank, and to WILLIAM IRWIN, for laying pipe for sewer system. Estimated cost, $8,809.

GARBAGE

Proposed Work

Tex., San Marcos—Contract will soon be awarded for garbage incinerator. Estimated cost, $35,000.

Que., Montreal—Report submitted to Board of Control by city incinerator department for incinerator with daily capacity of 500 tons. Estimated cost, $200,000.

Ont., Toronto—Bids will be received until Nov. 9 by T. L. Church, Chn. Bd. of Control, for garbage incinerator on Don Roadway.

Man., Winnipeg—Citizens defeated proposal to build $10,000 garbage incinerator.

STREETS AND ROADS

Proposed Work

Mass., Boston—Bids will be received by Massachusetts Highway Commission, 15 Ashburton Pl., until noon, Nov. 9, for constructing a section of state highway in towns of Sheffield and Great Barrington.

Conn., Ansonia—Report has been submitted estimating cost of widening Clifton Ave., between Division St. and O'Neill Court, at $6,000.

N. Y., Buffalo—City Council ordered repaving with asphalt Arlington Pl. and Packman, Stewart and Washington St.

N. Y., New York—(Borough of Bronx)—(Official)—Bids will be received by Douglas Mathewson, Borough Pres., Municipal Bldg., Crotona Park, 177th St. and Third Ave., until 10:30 a.m., Nov. 11, for paving with bituminous concrete on cement concrete foundation Tiebout Ave. from East 188th St. to Fordham Rd.

N. J., Boundbrook—(Official)—Bids will be received by Borough Council, American Hose Bldg., East Second St., until 8 p.m., Nov. 19, for paving Main St. Noted July 29.

N. J., Trenton—Ordinance passed for paving Arch St. from Cass to Grand St.

Penn., Greensburg—(Official)—Bids will be received by John S. Sell, County Controller, until noon, Nov. 15, for improving Harrison-City Export Rd. and Hecla-Hurst School House Rd.

Penn., Pittsburgh—(Official)—Bids will be received by Hyatt M. Cribbs, County Controller, until 10 a.m., Nov. 12 for improving Glenn Ave. and Wible Run Extension Rd.

Del., Wilmington—Bids will soon be received for resurfacing with bituminous material the following roads: Odessa to Boyds Corner on Old King Highway, Mt. Pleasant to Middleton via State Rd. and Newark to Glasgow via Coogh's Bridge.

Md., Easton—Bids will be received until Nov. 9 by J. B. Harrington, Clk., for 2.18 miles of shell road from Trappe to Barber under Contract No. 359; one mile of shell road from Bruceville to Windy Hill, under Contract No. 369; 1.06 miles shell or macadam on concrete road from Easton to Easton Point, under Contract No. 401.

W. Va., Huntington—Bids will be received until Nov. 8 by O. H. Wells, Comr. of Streets and Alleys, for paving sections of Sixth, 11th and 13th Ave.

N. C., Asheville—City plans to pave Beaumont St. from Hazard to Miller St. and construct sidewalks on west side of Marjorie St.

N. C., Charlotte—Contract will be awarded about Nov. 11 for 17,500 sq.yd. sidewalks.

N. C., Rockingham—Richmond County will issue $25,000 bonds for road improvements. B. F. Reynolds, County Clk.

N. C., Winston-Salem—Election will probably be held in December to vote on $50,000 bonds for road construction in Yadkin County.

S. C., Greenville—Bids will be received by A. S. Hartzog, Mayor, until Nov. 10, for 60,000 sq.yd. street paving, 10,000 sq.yd. cement gutters and 12,000 lin.ft. of granite curb.

Fla., Bronson—(Official)—Bids will soon be received for road work in Levy County. J. B. McCrary Co., Atlanta, Ga., Engr.

Fla., Gulfport—Citizens voted $9,000 bonds for two miles of modified asphalt streets. Noted Sept. 2.

Fla., Lakeland—Election will soon be held in Polk County to vote on $1,000,000 bonds for road construction.

Fla., Mayo—(Official)—J. B. McCrary Co., Atlanta, Ga., Jacksonville and St. Petersburg, Fla., engaged to prepare plans for roadwork in Lafayette County. Estimated cost, $300,000. Noted Sept. 23.

Fla., Miami—Bids will be received by W. B. Moore, City Clk., until Nov. 8, for grading and paving about 15,000 sq.yd. with asphaltic concrete and binder course on concrete foundation; also grading and paving with sand and asphaltic oil about 10,000 sq.yd. of streets.

Fla., New Smyrna—Citizens of south end of Volusia County voted to form road and bridge district and to issue $250,000 bonds for road across county from beach to St. Johns River, Sanford, hard surface road to De Land and John Anderson Highway from Rose Bay to Brevard county line.

Fla., Pensacola—Election will soon be held to vote on proposition to issue $500,000 bonds for roads.

Fla., Tallahassee—(Official)—Bonds for $200,000 for roads will soon be offered for sale. J. B. McCrary Co., Atlanta, Ga., Engr.

Ala., Dothan—Bids will be received until Nov. 18 by A. C. Crawford, Chn. of Houston County Bd. of Revenue, for constructing 21 miles of road. Estimated cost, $75,000. Noted Sept. 30.

Ala., Mobile—A plan has been submitted to Alabama & Mississippi Gulf Coast Highway Association for highway between Mobile and Baldwin Counties. Work will also include bridge across Spanish River and ferry over Mobile and Tensaw River. Estimated cost, $105,000. Baldwin County plans $55,000 bond issue to pay its portion of project.

Miss., Brookhaven—Commissioners of Lincoln County, District No. 1, plan to construct two miles of gravel roads.

La., Crowley—Plans being considered for constructing 150 miles of gravel roads in Acadia Parish. Estimated cost, $750,000.

La., Donaldsonville—Citizens of Ascension Parish, Road District No. 2, voted $50,000 bonds for road work. Noted Sept. 23.

Tenn., Bristol—Bonds for $8,000 sold for street improvements.

Tenn., Harriman—Appropriation of $32,000 made by Roane County Court for completing pikes in various districts.

Tenn., Murfreesboro—Election will be held about Dec. 15 in Rutherford County to issue $175,000 bonds to purchase and maintain turnpikes. Noted Sept. 30.

Tenn., Pulaski—Election will be held Dec. 20 to vote on $500,000 bonds for roads in Giles County. Noted Oct. 14.

Ky., Catlettsburg—Commissioners of Boyd County contemplate an expenditure of $75,000 for road construction.

Ky., Crittendon—Bonds for improving a number of streets defeated by citizens.

Ky., London—Contract will soon be awarded for 14 miles of Dixie Highway and Boone Way between London and Corbin.

Ky., Louisville—An expenditure of $7,400 voted by Jefferson County Fiscal Court for emergency road work.

Ky., Paducah—Bids will soon be received for improving Hinkleville Rd. from Little Union schoolhouse to Lamont. Estimated cost, $8,836.

Ky., Winchester—Commissioners of Clark County plan to call election to vote on $25,000 bonds for two miles of road under State-Aid law. Noted Aug. 12.

Ohio, Cleveland Heights—(Warrensville post office)—Bids will be received until noon, Nov. 15, by H. H. Canfield, Village Clk., for constructing sidewalks on Somerton Rd. from Wilton to Superior Rd.

Ohio, Cleveland Heights—(Warrensville post office)—Bids will be received until noon, Nov. 15, by H. H. Canfield, Village Clk., for grading, draining and paving Corydon Rd., paving Cottage Grove Drive and grading, draining and paving Essex Rd.

Ohio, East Youngstown—See item under "Sewers."

Ohio, Marietta—Bids will soon be received for paving a number of streets. Estimated cost, $6,500. E. F. Gates, City Engr.

Ind., Columbus—Bids will be received about Nov. 15 for two crushed stone and one gravel road, each 2½ miles long. W. H. Scott, Audr., Bartholomew County.

Ind., Ft. Wayne—Bids will be received until 2 p.m., Dec. 1, for purchase of $15,000 bonds for roads in Wayne Trace County.

Mich., Au Gres—Election will be held Nov. 25 to vote on $30,000 bonds for roads.

Mich., Corunna—According to press reports an election will be held in Shiawassee County in 1916 to vote on $200,000 bonds for road construction.

Mich., Pontiac—Election will be held in April to vote on $1,000,000 bonds for roads.

Mich., St. Ignace—Election will soon be held to vote on $200,000 bonds for constructing county roads.

Mich., St. Joseph—(Official)—Bids will be received by Board of Road Commissioners of Berrien County until Nov. 11 for 48½ miles of water bound macadam roads. Estimated cost, $340,000. W. Cleary, County Highway Engr.

Mich., Standish—Election will be held Nov. 27 to vote on $30,000 bonds for road improvements in Whitney Township.

Ill., Alton—Plans being considered for paving Staunton St. with brick.

Ill., Champaign—An expenditure of $22,000 planned by Board of Supervisors for oiled road.

Ill., Rock Island—Bids will soon be received for paving Eighth Ave. from 24th to 29th St. Estimated cost, $15,000. Noted Oct. 14.

Wis., Birchwood—Bond issue for $5,000 contemplated for street improvements.

Iowa, Lyons—Plans being considered for paving Sixth and Main St.

Minn., Duluth—Grand Ave. from 29th to 54th Ave., West, will be improved. Estimated cost, $130,000. J. A. Farrell, Comr. of Pub. Wks.

Kan., Hiawatha—An expenditure of $200,000 planned by Commissioners of Brown County for concrete road across county.

Kan., Newton—City Council passed ordinance providing for paving, curbing and guttering of Broadway from west side of Kansas Ave. to Logan St.

Kan., Topeka—Commissioners of Shawnee County contemplate an expenditure of $50,000 for repairing and constructing highways.

Kan., Wichita—Contract will be awarded about Nov. 22 for about 1,200 sq.yd. of 3-in. vertical fiber vitrified paving block on 5-in. concrete case, also 500-ft. of curbs.

Mo., Lexington—Bonds for $55,000 voted by Lafayette County, Special Road District, to rock gap in Old Trails Rd. and to repair bridges and culverts.

Tex., Austin—Citizens voted $425,000 bonds for street improvements and bridges. Noted Sept. 16.

Tex., El Paso—City plans to pave portions of Nevada, East Rio Grande, Chihuahua and West Blvd.

Tex., Hondo—Bids will be received until Nov. 8 by H. F. Wurzbach, Comr. of Medina County, Cliff, for about 20 miles of gravel roads.

Tex., Houston—County Commissioners appropriated $200,000 for road work.

Tex., Jacksonville—Election will be held Nov. 16 to vote on $150,000 bonds for improving roads in Road District No. 1.

Tex., Oakville—Bond issue for road construction contemplated by Live Oak County, Precinct No. 2.

Tex., Orange—Citizens of Orange County, Precinct No. 4, voted $7,000 bonds for shell or gravel road on lower Beaumont Rd. Noted Sept. 23.

Tex., Sherman—See item under "Light, Heat and Power."

Tex., Tyler—Election will soon be held to vote on $100,000 bonds for constructing roads.

Tex., Victoria—Bonds for $30,000 sold for street improvements.

Tex., Weimar—Election will probably be held to vote on $100,000 bonds for road improvements.

Okla., Drumright—Plans being considered for paving Broadway.

Okla., Inola—Election will be held Nov. 6 to vote on $30,000 bonds for road construction.

Okla., Talihina—Citizens voted $50,000 bonds for roads and bridges.

Idaho, Wallace—Plans submitted to construct boulevard of Fourth of July Canyon which connects national highway through Wallace and Cœur d'Alenes with Apple Way leading to Spokane. Estimated cost, $45,000.

Wash., Centralia—All bids received for hardsurfacing Veness Rd. in south end of town rejected. New bids will be received.

Wash., Everett—City Commissioners have authorized improvement of 41st St. from Rucker to Crescent St.

Wash., Montesano—County Commissioners have appropriated a sum for the Montesano-Cosmopolis Rd. which is to be built next year.

Wash., Port Orchard—County Commissioners have passed resolution authorizing expenditure of $5,000 for road construction on Bainbridge Island.

Ore., Pendleton—G. Kimbrell, City Engr., instructed to prepare plans for improvement of Riverside Drive from Main to Railey St.

Ore., Pendleton—William Bradley, County Surveyor, submitted report estimating cost of highway between Umatilla and Pendleton, at $51,620.

Calif., Bakersfield—Bids will be received until Nov. 8 by Board of Supervisors for improving Section No. 7, Bakersfield-Mojave Rd.

Calif., Fresno—City Council plans to pave Santa Fe Ave. Estimated cost, $45,000. B. E. Cronkite, City Engr.

Calif., Pomona—Election will be held sometime in November to vote on $50,000 bonds. Part of proceeds will be used for grading and oiling streets and culverts.

Calif., Richmond—Southern Pacific Co. plans to pave Cutting Blvd. Estimated cost, $5,500.

B. C., New Westminster—City Council plans to grade and macadamize Seventh and Belmont St. and Fifth Ave. Estimated cost, $7,850.

Bids In and Contracts Awarded

Mass., Wareham—Contract for 8,750 ft. of highway awarded to THOMAS N. MURPHY, Middleboro, at $9,293. Noted Oct. 14.

N. Y., Albany—(Official)—Bids were received Oct. 26 by State Highway Commission, 55 Lancaster St., for constructing highways by State-Aid as follows:

Road No. 1249, Albany County, 3.41 miles: George J. Curran, Middletown, Conn., $27,855; Huntoon & Ferguson, Hudson Falls, $29,719; A. N. Hoyt, Albany, $30,000.

Road No. 5532, Allegany and Steuben County, 5.25 miles: Kennedy Construction Co., Albany, $50,881; J. G. Hayes Co., Inc., Rome, $51,975; Greenfield Construction Co., Hornell, $52,064.

Road No. 1327, Cayuga County, 6.06 miles: John H. Gordon, Albany, $52,010; Michael H. Ripton, Rochester, $52,110; John G. Hayes & Co., Inc., Rome, $53,054.

Road No. 5594, Clinton County, 3.79 miles: Bluff Point Stone Co., Inc., Plattsburg, $29,160; Boynton & McNally, Keeseville, $30,079; Routley & Summers, Huntingdon, Que., $30,755.

Road No. 1331, Columbia County, 4.27 miles: Russo-Parker Construction Co., Hudson, $39,756; Marks Kearney, Hudson, $39,757; Rumph & Stevens, Lake Placid, $2,290.

Road No. 1332, Columbia County, 7.77 miles: Marks Kearney, Hudson, $62,186; Russo-Parker Construction Co., Hudson, $63,957; Gruner & Hollenbeck, Harriman, $66,659.

Road No. 5595, Cortland County, 3.65 miles: T. H. Gill Co., Binghamton, $39,759; Dana W. Robbins Co., Inc., New York, $40,959; James Rossney, Buffalo, $41,415.

Road No. 1333, Erie County, 9.14 miles: Shanley Construction Co., Buffalo, $141,828; Atlanta Construction Co., Atlanta, $141,094; F. H. Wells, Corfu, $142,263.

Road No. 1334, Erie County, 4.30 miles: Langan Construction Co., Albany, $70,049; Henry P. Burgard Co., Buffalo, $74,886; Larry W. Roberts Co., Utica, $73,991.

Road No. 1335, Erie County, 4.50 miles: Stanley Construction Co., Buffalo, $57,914; Bison City Engineering and Construction Co., Inc., Buffalo, $58,083; F. H. Wells, Corfu, $58,095.

Road No. 1336, Erie County, 5.19 miles: George Neilons, Grand Island, $56,250; John W. Landel, Tonawanda, $59,211; F. J. Mumm Contracting Co., Buffalo, $64,239.

Road No. 5582, Genesee County, 4.53 miles: Chilson & Gibson, Leroy, N. Y., $44,893; Greenfield Consolidated Co., Hornell, $46,094; H. E. Benedict, Williamsport, Penn., $48,063.

Road No. 5593, Livingston County, 7.09 miles: James Anderson, Albany, $63,063; Hendrickson-McCabe Construction Co., Spencerport, $63,554; Ribstine-Holter Co., Rochester, $65,070.

Road No. 1110, Madison County, 3.05 miles: Mohawk Engineering Co., Mohawk, $26,151; Fort Schuyler Construction Co., Oneida, $26,590; Michael O'Brien, Cortland, $27,039.

Road No. 1328, Monroe County, 0.73 mile: Whitmore-Rauber & Vicinius, Rochester, $12,927; Ribstine-Holter Co., Inc., Rochester, $13,113; Julius Friedrich & Co., Inc., Rochester, $13,218.

Road No. 1327, Monroe County, 2.91 miles: Ribstine-Holter Co., Inc., Rochester, $35,548; Langan Construction Corporation, Albany, $37,369; Whitmore-Rauber & Vicinius, Rochester, $38,465.

Road No. 5547, Oneida County, 0.70 mile: Langan Construction Corporation, Albany, $17,187; Harry W. Roberts Co., Utica, $18,795; H. B. Sproul Construction Co., Inc., Peekskill, $19,291.

Road No. 448, Part 2, Orange County, 3.64 miles: Armstrong and Trowbridge, Middletown, $29,868; John Arborio, New Haven, Conn., $30,911; Jackson Bros., Cuddebackville, $31,308.

Road No. 449, Orange County, 5.17 miles: Armstrong & Trowbridge, Middletown, $21,399; A. Buggiens, Wurtsboro, $20,542; John Arborio, New Haven, Conn., $21,925.

Road No. 1329, Orange County, 3.70 miles: Samuel M. Serlesine, New York, $47,269; Heisler & Aldershoff, Albany, $51,-574; Belmar Contracting Co., Troy, $52,696.

Road No. 5545, Schenectady County, 5.62 miles: George J. Curran, Middletown, $38,777; John B. Dower, Ballston Spa., $42,983; D. I. Snell & Co., Canajoharie, $48,820.

Road No. 5589, Seneca County, 5.01 miles: Greenfield Construction Co., Hornell, $43,719; Thomas Grady, Rochester, $46,454.

Road No. 5510-A, Sullivan County, 0.43 mile: Henry McNamee, Eddyville, $7,947; Samuel Serliesine, New York, $8,188; John J. Keating, Monticello, $8,337.

Road No. 1079, Tioga County, 4.07 miles: Peter F. Connolly Co., Horseheads, $30,602; Lane Construction Corporation, Meriden, Conn., $32,752; Hendrickson-McCabe Construction Co., Spencerport, $32. 939.

Road No. 1330, Tompkins County, 2.48 miles: Greenfield Construction Co., Hornell, $26,447; Richard Hopkins, Troy, $26,986; Kendor Engineering and Construction Co., Inc., Buffalo, $27,618.

Road No. 603, Ulster County, 10.24 miles: Armstrong and Trowbridge, Middletown, $82,935; Cairnie-St. George Co., New York, $89,684; George H. McAvoy, Creek Locks, $89,742.

Noted Oct. 26.

N. Y., Buffalo—Contracts for paving awarded as follows: Mortimer St. to HENRY B. BURGARD CO., 1968 Fillmore Ave., at $25,225, and Virgil Ave. from Hertel Ave. to Tacoma Pl. to GERMAN ROCK ASPHALT AND CEMENT CO., LTD., at $12,-120.

N. Y., Buffalo—Contract for paving Casimir St. awarded to GERMAN ROCK ASPHALT AND CEMENT CO., LTD., at $16,000, and to ERIE CONTRACTING CO., at $32,000, for Rees St.

N. J., Fairview—Contract for paving Walker and Lincoln St. awarded to BERGEN CONTRACTING CO., Cliffside, at $22,500.

N. J., New Brunswick—Thomas F. Dunigan, Woodbridge, at $29,148, submitted lowest bid for improving Amboy Ave. from city line at Spa Springs to Myrtle Ave., and at $5,749 for improving New Brunswick Ave.

Penn., Philadelphia—Union Paving Co., 30th and Locust St., Philadelphia, at $17,163, submitted lowest bid for surfacing with bituminous on 5-in. concrete base.

Md., Baltimore—State Roads Commission awarded contracts for road work as follows: Anderson Mill Rd., Wicomico County, to JUNIATA CO., Empire Bldg., Philadelphia, Penn., at $12,885; Concord Camp Rd., Caroline County, to PHILLIPS & RENSHAW, Preston; Marydel Rd., Caroline County, to S. S. ANDREWS & SON, Cambridge; Glenburnie Rd., Anne Arundel County to F. M. DUVALL, St. Margaret, at $14,676; Big Pool Rd., Washington County, to HOLLINGER & DENIN, Clearspring, at $14,103. Noted Sept. 23.

Va., Petersburg—Contract for granite block paving awarded to K. L. BLACK, Richmond.

Va., Princess Anne—Contract for three miles of Ocean Park Highway awarded to VESTA CONSTRUCTION CO., Terrace Fork, at $4,185.

Fla., Ft. Myers—Contract for Ft. Myers-Marco Rd. awarded to C. W. CARLTON, M. B. DAVIS and W. C. HILL; contract for Mt. Myers-Naples Rd. awarded to W. R. WALLACE CO. Bonds for $177,500 voted for this purpose. Noted Sept. 2.

Fla., Glen Cove Springs—(Official)—Board of County Commissioners of Clay County awarded contract for road work in Special Road and Bridge District No. 1 to J. B. McCRARY CO., Atlanta, Go. Estimated cost, $122,000.

Fla., Pensacola—(Official)—All bids received for paving streets around Pensacola Hospital rejected. Estimated cost, $10,000. Noted Oct. 7.

Fla., Tampa—Contract for 50,000 lin.ft. of concrete curbing awarded to CORNWELL CONSTRUCTION CO., Tampa.

Fla., Wauchula—Contract for approximately 12,000 sq.yd. brick paving awarded to ALABAMA PAVING CO., American Trust Bldg., Birmingham, Ala.

Ala., Gadsden—Contract for rebuilding Steele Station Rd. awarded to I. W. GILBERT, at $4,991.

Ala., Sulligent—Contract for road from Sulligent to Marion County line, about 18 miles, awarded to B. G. EDGAR, Vernon, by Lamar County Commissioners, Vernon.

Miss., Ackerman—Contract for concrete sidewalks awarded to W. L. DAMON, Okolona, at about $25,000.

Miss., Columbus—S. E. FINDLAY CO., Atlanta, Ga., awarded contract for surfacing with tarvia 4½ miles Military Rd.

Tenn., Newport—Contract for grading and macadamizing roads in Cocke County awarded to R. L. PETERS, at $150,900. Noted Oct. 7.

Ky., Central City—Contract for four miles of pike awarded to W. S. MARTIN, Evansville, for labor, and to TRI-STATE STONE CO., Cerulean, for rock. Estimated cost, $25,000.

Ky., Paducah—CRESAP BROS., Humboldt, Tenn., at $9,000, awarded contract for six miles of road.

Ohio, Cincinnati—Contract for improving Van Zandt Rd. and Wayne Ave. awarded to HENRY WESTERMAN, Barnesburg, at $14,107.

Ohio, Coshocton—Contract for 9,900-ft. brick and macadam on Coshocton-West Lafayette Rd. awarded to COSHOCTON CONSTRUCTION CO., at $35,740.

Ohio, Hamilton—Contract for paving North Second St. from Black to Third and Washington St. awarded to ANDREWS ASPHALT PAVING CO. Estimated most, $12,551.

Ohio, Middletown—Contract for grading roadway on Michigan and York Ave. from Garfield Ave. to Walnut St. and Sycamore St. from Armco Ave. to south corporation line awarded to OWEN BANON.

Ind., Ft. Wayne—Contract for paving Rudisill Ave. from Calhoun St. to Broadway awarded to MOELLERING CONSTRUCTION CO., Fort Wayne, at $26,613.

Ind., Franklin—(Official)—Contract for gravel road on Johnson-Marion County line awarded to JOHN W. MURPHY. Noted Sept. 23.

Ind., Indianapolis—Contract for paving 19th St. awarded to A. L. TRIBBLE, Brazil, at $46,878.

Ind., Muncie—Contract for improving Rector Rd. awarded to CURTIS V. RECTOR, at $9,000.

Ind., New Albany—W. F. WOODRUFF, Louisville, Ky., at $13,987, awarded contract for paving 10,590-ft. Grant Line Rd.

Ind., Paoli—Contract for ¼ mile of macadam pavement awarded to GEORGE A. CHARLES, West Baden, at $5,863.

Ind., Vincennes—(Official)—Contract for paving Second St. from Main to Church St. with trinidad lake asphalt awarded to PREMIER CONSTRUCTION CO., Indianapolis, at $4,335. Noted Oct. 21.

Mich., Fairfield—Contract for macadam road from state line north to Jasper awarded to GRAY BROS., Bowling Green, at $26,900.

Ill., Alton—Contract for repaving East Second St. awarded to STRUBEL & HELMICK, at $19,457.

Ill., Chicago Heights—Contract for paving 16th and Wentworth St. awarded to CHICAGO HEIGHTS COAL CO., at $70,087.

Wis., Ashland—Contract for grading 16 miles of road awarded to FISH & O'CONNOR, at $8,778.

Minn., Fergus Falls—Contract for grading Laurel St. between Broadway and Buse St. awarded to H. R. BUTLER. Noted Sept. 30.

Minn., Mendota—Contract for paving 11th St. from Joliet to Hennepine St., Hennepine St. from 9th to 11th St. and 19th St. from Hennepine to Tonti St. awarded to T. W. KEYS, La Salle, at $13,935.

Kan., Horton—Contract awarded to KAW PAVING CO., Topeka, for paving, curbing and guttering Lincoln St. from Mina to North St., High St. from North to Garrett St., Rock Island Ave. from North to Garrett St. and Whiteside St. from Main to Rock Island Ave., at $1.51 for paving and 60c. for curbing and guttering.

Neb., Lincoln—Contract for paving Tenth St. awarded to BURKE-COCHRANE CONSTRUCTION CO., at $10,955; portion of Ryon St. to ABEL & ROBERTS, Lincoln, at $7,857.

Mont., Livingston—(Official)—Contract for paving Park St. awarded to WARREN CONSTRUCTION CO., at $8,000. Noted Oct. 14.

Mo., Kansas City—Contract for grading about 70,000 yd. of Ward Parkway from 57th St. to Meyer Blvd. awarded to E. MEEGAN, 4th and Main St., Kansas City, at $0.138 per cu.yd.

Ark., De Witt—Contract for paving awarded to M. J. COLE, JR., Little Rock. Estimated cost, $25,000.

Ark., Little Rock—Contract for constructing sidewalks in District No. 228 awarded to OGLESBY BROS., Monticello, at $5,158.

Tex., Dallas—Contract for paving East Houston Ave. from Lafayette to Albert St. awarded to BERT HAHN CONSTRUCTION CO.

Tex., Graham—Contract for repairing roads and bridges awarded to L. G. HAMILTON. Estimated cost, $20,000.

Tex., Mineral Wells—Contract for paving about 50,000 sq.yd. with asphalt macadam and about 30,000 lin.ft. curbing and guttering awarded to FRANK WHITLEY, Mineral Wells.

Wash., Okanogan—Contract for permanent highway No. 4-A awarded to DOUGLAS & HILL, Tonasket, at $4,300.

Wash., Olympia—Contract for seven miles of highway from Colfax to Rosalia, Whitman County, awarded to W. G. MULLIGAN CO., Spokane, at $21,120, and road on Inland Empire highway in Walla Walla and Columbia Counties between Waitesburg and Dayton to GENERAL CONSTRUCTION CO., Spokane, at $13,243. Noted Oct. 28.

Wash., Seattle—Contract for Issaquah Rd. awarded to GEORGE A. BANDERT, Renton, at $7,199.

Wash., Seattle—Holt & Jeffrey, Railway Exchange Bldg., Seattle, at $11,169, submitted lowest bid for paving 14th Ave.

Wash., Seattle—Independent Asphalt Paving Co., Seattle, at $26,685, submitted lowest bid for paving 47th Ave., N. E. Noted Sept. 16.

Wash., Shelton—Contract for section of permanent highway awarded to F. L. BROWN, Portland, at $7,200.

Wash., Stevenson—Bids were received for improving Second St. from R. D. Shelly, at $4,435, and H. J. Hildeburn, at $5,004.

Ore., Portland—Contract for paving East 23rd, East 24th, and Franklin St. will probably be awarded to GIEBISCH & JOPLIN, Portland, at $13,013.

Calif., Bakersfield—Contracts for paving awarded as follows: McKittrick-Bakersfield Rd. to SHATTUCK & NIMMO WAREHOUSE CO., at $28,802; Weed Patch Loop to WORSWICK STREET PAVING CO., at $31,460. Noted Oct. 21.

Calif., Hollister—Contract for improving Tres Pinos-Paicines Rd. awarded to JOHN McREYNOLDS, San Jose, at $7,941.

Calif., Manhattan Beach—(Manhattan post office)—MODERN CONSTRUCTION CO., Los Angeles, at $8,247, awarded contract for paving Sixth, Seventh and other streets. L. Price, City Clk.

Calif., Sacramento—(Official)—Bids were received Oct. 8 by State Highway Commission for constructing roads in various counties as follows: (a) Conomo County, Div. 4, Route 8, Section A, (b) Placer County, Div. 111, Route 3, Section B, (c) Mariposa County, Div. 6, Route 18, Section A; (a) Spring Construction Co., Berkeley, $22,852; Bates, Borland & Ayer, Oakland, $22,183; P. H. Hoare, Oakland, $24,869; (b) Whitelock & Gorrill, Durham, $50,582; Twohy Bros. Co., San Francisco, $49,114; C. H. and A. W. Gorrill, San Francisco, $47,340; (c) George R. Daley, San Diego, $42,749; G. W. Connors, Eureka, $46,860; Toohey & Johnson, Dunsmuir, $45,285. Noted Oct. 7.

Calif., Vacaville—Bids were received for completing state highway through Vacaville as follows: Bentley & Gates, $10,854; Blumenkranz & Co., $11,465; Wrightson & Jost, $11,152.

INDUSTRIAL WORKS

Proposed Work

Conn., New Haven—Plans being prepared by R. W. Foote, Arch., for two-story, 32x100-ft. garage for G. W. Baldwin & Son.

Conn., Waterbury—Waterbury Farrell Foundry and Machine Co. plans two-story 75x150-ft. brick and steel mill.

N. Y., Albany—Bids will soon be received by Fuller & Robinson, Arch., 95 State St., for nine-story warehouse and show room at 75 State St. for Kinney & Woodward.

N. Y., Buffalo—Gilford Mfg. Co. plans three-story brick addition. Estimated cost, $17,000.

N. Y., Cohoes—John Garside & Co. plans plant. Estimated cost, $10,000.

N. Y., Niagara Falls—E. I. Du Pont de Nemours Powder Co. has asked for permit to build plant.

N. Y., Syracuse—H. H. Franklin Mfg. Co. plans additions to plant. Estimated cost, $500,000.

N. Y., Warren—U. G. Lyons, Pres. of Conewango Refining Co., has secured 40 acres of land in North Warren and will build a refining plant.

Penn., Norristown—Bids will soon be received by Peckert & Wunder, Arch., 310 Chestnut St., Philadelphia, for bottling house for Adam Scheidt Brewing Co. Estimated cost, $50,000.

Penn., Philadelphia—Bids will soon be received by Sauer & Hahn, Arch., 1112 Chestnut St., for four-story, 54x100-ft. factory for M. Rice & Co. Noted Oct. 28.

Penn., Wilkes-Barre—Henry A. Maier, Arch., Coal Exchange Bldg., prepared plans for five-story, 52x120-ft. brick building for R. S. Williams, 124 East Market St. Building leased by Planters Nut & Chocolate Co., 79 East Northampton St.

Md., Baltimore—Plans prepared for cold-storage plant for Maryland Cold Storage Co.

Md., Baltimore—Leon Rosst, 1902 Eutaw Pl., Vice-Pres. Spanish-American Trading Co. purchased Mt. Vernon Brewery and will improve plant for guncotton factory.

W. Va., Huntington—C. D. Cooley Co., Arch., Century Bldg., Pittsburgh, preparing plans for three-story 100x100-ft. ice cream factory for J. L. Wilson. Estimated cost, $100,000.

W. Va., Wheeling—United States Stamping Co. will build 150x160-ft. addition.

N. C., Wilmington—Hilton Compress and Warehouse Co. will build compress and warehouse. Estimated cost, $50,000.

Ohio, Ashtabula—Plans prepared and bids being received for factory for Cleveland Ford Tire Co. Noted Oct. 21.

Ohio, Canal Dover—Dover By-Product Coke Co. will soon start work on 20-ton coke plant in yards of Penn Iron and Coal Co.

Ohio, Hamilton—Huss Furniture Co. Hamilton, formerly Huss Bros. Mfg. Co., Cincinnati, will build factory.

Ohio, Lima—Lima Brick and Tile Co., Taft Ave., increased capital from $30,000 to $50,000 and will enlarge plant.

Ohio, Massillon—(Columbus Heights)—Central Steel Co. contemplates mill.

Ohio, Reading—Tubular Steel Products Co. contemplates steel plant on Reading Rd.

Ohio, Toledo—Plans being prepared by Devore & McGormley, Arch., 304 Nasby Bldg., for three-story laundry building for Bancroft Realty Co. Estimated cost, $54,000.

Ohio, Toledo—Preliminary plans being prepared by Mills, Rhines, Bellman & Nordhoff for factory on Smead and Lincoln Ave. for Doehler Die Castings Co.

Ohio, Toledo—Electric Auto Lite Co. plans addition. Estimated cost, $100,000.

Ohio, Youngstown—Briar Hill Steel Co. will build two open-hearth steel furnaces. Estimated cost, $500,000.

Ind., Anderson—Pierce Speed Controller Co. plans factory at Ninth St. and Central Ave.

Ind., Kokomo—Apperson Bros. Automobile Co. will build 151x344-ft. factory.

Mich., Buchanan—E. B. Clark, Pres. Celfor Tool Co., and Buchanan Electric Steel Co. contemplates 136x300-ft. addition to plant.

Ill., Chicago—Burt Baker plans one-story brick warehouse on South Green St. F. O. DeMoney, Arch. Estimated cost, $10,000.

Ill., Chicago—Chalmers Motor Co. will build a five-story addition. A. S. Alachuler, Arch., 28 East Jackson Blvd. Estimated cost, $20,000.

Ill., Chicago—Conella Bakery Co. plans two-story bakery at 2006 West Erie St. W. H. Jruyn, Jr., Arch. Estimated cost, $30,000.

Ill., Chicago—Plans being prepared by A. S. Alschuler, 28 East Jackson Blvd., Arch., for two-story, 177x193-ft. factory for the Hump Hairpin Co. Estimated cost, $150,000. Noted Sept. 30.

Ill., Chicago—Selta Star Electric Co. will build one-story brick factory at 2433 Fulton St. R. G. Pierce, 10 South LaSalle St., Arch. Estimated cost, $16,000.

Ill., Chicago—C. Teich plans three-story factory at 1821 Berteau Ave. K. M. Vitthum, Arch. Estimated cost, $40,000.

Ill., Chicago—Union Petroleum Co. plans two-story building on 43d St. Estimated cost, $150,000.

Ill., Peoria—Plans being prepared by Hotchkiss & Harris, Arch., Herald-Transcript Bldg., for 60x180-ft. factory for Chic Apron Co., 215 South Adams St. Noted Oct. 28.

Minn., South St. Paul—Armour & Co. plans packing plant.

Mont., Great Falls—Kurt Grundwal of the Holly Sugar Co., Denver, Colo., will build beet sugar factory.

Mo., St. Louis—G. A. Von Brocht purchased plant of Austin Candy Co. and will improve and install new machinery. Estimated cost, $100,000.

Mo., St. Louis—(South St. Louis)—Monsanto Chemical Works will soon build addition on Lafayette Ave. Estimated cost, $60,000.

Tex., San Antonio—(Official)—Bids will be received until Dec. 1 for enlarging plant of Dixie Oil and Refining Co. Estimated cost, $40,000. Noted Oct. 21.

Okla., Sand Springs—Charles Page is interested in formation of company to build cotton mill. Estimated cost, $500,000.

Colo., Denver—Press reports state that Austin Daly Co. plans addition and will install machinery. Estimated cost, $100,000.

Colo., **Denver**—Colorado Packing and Provision Co. contemplate building plant. Estimated cost, $350,000.

Ont., **Cache Bay**—George Gordon & Co. will rebuild sawmill recently destroyed by fire. Estimated cost, $75,000.

Ont., **Toronto**—George H. Gooderham plans garage on University Ave., Toronto. Estimated cost, $30,000.

B. C., **Vancouver**—B. T. Bishop will build machine shop on Granville St. Estimated cost, $25,000.

Bide In and Contracts Awarded

Mass., **Boston**—Contract awarded to FRED T. LEY CO., INC., for four-story 60x200-ft. factory for King Estate.

Mass., **Brookline**—Colonial Realty Trust Co. has awarded contract to BOYD & BERRY, 11 Crampian Way, for one story, 114x116-ft. garage. Estimated cost, $28,000.

Conn., **Bristol**—Contract awarded to LEVERING & GARRIGUES CO. for rolling mill for Bristol Brass Co. Noted Oct. 21.

Conn., **Waterbury**—Waterbury Farrell Foundry & Machine Co. awarded contract to H. WALES LINES CO., Meriden, for two-story, 75x150-ft. mill building. Noted Oct. 28.

N. Y. **Binghamton**—Ansco Co. awarded contract to JOHN L. LEWIS CO., for four-story brick factory. Estimated cost, $20,000.

N. Y., **Buffalo**—(Official)—Automatic Transportation Co., Main St., Buffalo, awarded contract for 53x146 ft. warehouse and blacksmith shop to TURNER CONSTRUCTION CO., 11 Broadway, N. Y.

N. Y., **Buffalo**—(Official)—Contract for four-story, 81x106 ft. warehouse and show room for Robertson Cataract Electric Co. awarded to TURNER CONSTRUCTION CO., 11 Broadway, N. Y.

N. Y., **Niagara Falls**—(Official)—Carborundum Co. awarded contract to TURNER CONSTRUCTION CO., 11 Broadway, N. Y., for two-story, 80x144 ft. addition to kiln building.

N. J., **Camden**—New York Shipbuilding Co. awarded contract to DOYLE & CO., 1519 Sanson St., Philadelphia, for one-story, 80x200-ft. warehouse.

N. J., **Camden**—Contract awarded to GEORGE KOSSLER CONTRACTING CO., Drexel Bldg., Philadelphia, for factory and warehouse for Eavenson & Levering.

Penn., **Meadville**—Contract for rebuilding Erie freight house awarded to W. K. BYHAM.

Penn., **Reading**—D. H. Delp & Co. awarded contract to CHARLES H. SCHLEGEL, Reading, for four-story brick and terra-cotta warehouse.

Ohio, **Akron**—Firestone Tire and Rubber Co. has awarded contract for five-story, 100x125 ft. addition to HUNKIN CONKEY CONSTRUCTION CO., Cleveland.

Ohio, **Akron**—Goodyear Tire and Rubber Co. awarded contract for two six-story buildings to HUNKIN CONKEY CONSTRUCTION CO., 320 Cuyahoga Bldg., Cleveland. Estimated cost, $600,000.

Ohio, **Carthage**—(Cincinnati post office)—Polleck Steel Co. awarded contract to M. MARCUS BUILDING CO., for 125x128 ft. addition. Noted Oct. 28.

Ohio, **Cleveland**—Parish & Bingham Co., West 106th and Madison Ave., awarded contract to W. I. THOMPSON & SON CO., 6110 Euclid Ave., Cleveland, for addition. Noted Oct. 14.

Ohio, **Cleveland**—Contract awarded to McCLINTIC MARSHALL CONSTRUCTION CO., Pittsburgh, Penn., for factory buildings for Van Dorn & Dutton Co. Estimated cost, $90,000. Noted Oct. 7.

Ohio, **Salem**—Harris Bros. awarded contract to M. E. FARR for 40x150 ft. plant on West Main St.

Ohio, **Salem**—Porter Rubber Co. awarded contract for plant to ELLSWORTH KILLE, Salem.

Ind., **Evansville**—Hercules Co. awarded contract for factory to CALDWELL & MARSHALL, Columbus, Ind.

Ind., **Ft. Wayne**—Ft. Wayne Electric Works of General Electric Co. awarded contract to A. T. BENTLEY & SON for factory.

Mich., **Grand Haven**—Amazon Knitting Co. has awarded contract for factory to BUCK & MULLEN, Muskegon.

Mich., **Sturgis**—Sturgis Steel Go-Cart Co. awarded contract for two-story, 61x85 ft. factory to WILLIAM A. CAVIN.

Ill., **Chicago**—Gruyton & Cumper Mfg. Co. awarded contract for one-story factory at 4449 Fillmore Ave. to SCHMIDT BROS. CONSTRUCTION CO. Estimated cost, $10,000.

Mo., **St. Louis**—Ford Motor Car Co. awarded contract to CHAPLINE CONSTRUCTION CO. for five-story assembling plant. Estimated cost, $300,000. Noted Sept. 23.

Utah, **Ogden**—Ogden, Logan & Idaho Railway Co. awarded contract to C. F. DINSMORE for car barns and repair shops, to UTAH CONSTRUCTION CO. for freight terminal. Estimated cost, $125,000. Noted under Logan, Utah, Oct. 28.

Wash., **Camas**—Contract awarded to CROWN-WILLAMELLE PAPER CO., Pittock Bldg., Portland, for three-story, 44x67 ft., reinforced-concrete mill by the Van Sant-Houghton Co., San Francisco. Estimated cost, $35,000.

Wash., **Seattle**—Contract for eight-story building for Times Publishing Co. awarded to A. W. QUIST & CO., Hoge Bldg., Seattle, at $225,985. Noted Aug. 5.

Calif., **San Pedro**—American Trona Co. awarded contract to LLEWELLYN IRON WORKS for furnishing and erecting the structural steel for a number of buildings. Noted Sept. 30 under Los Angeles, Calif.

Ont., **Chatham**—Dominion Sugar Co., Wallaceburg, will build refinery at Shatham by day labor. Estimated cost, $1,000,000.

Ont., **Port Stanley**—Port Stanley Railway Commissioner awarded contract for railway shops and car barns to HAYMAN & SONS, at $27,000.

FEDERAL GOVERNMENT WORK

Proposed Work

Conn., Greenwich—Post Office—Bids will be received by James R. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Dec. 10, for U. S. post office at Greenwich.

N. Y., Ft. Totten—Bowling Alleys—Bids will be received at office of Quartermaster until 10 a.m., Dec. 2, for two bowling alleys at Ft. Totten. (See adv.)

N. Y., Ft. H. G. Wright—Building—Bids will be received at office of Constructing Quartermaster until 9 a.m., Nov. 26, for constructing double set officers' quarters.

Penn., Philadelphia—Dredging—Bids will be received at U. S. Engineer Office, Philadelphia, until noon, Nov. 22, for dredging in Delaware River on Bellevue, Cherry Island and Deep Water Point light house ranges. Noted Sept. 9.

Md., Indian Head—Building—Bids will be received by H. R. Stanford, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a.m., Nov. 6, for magazine building at naval proving ground.

D. C., Washington—Roller Casings, etc.—Bids will be received by F. C. Boggs, Gen. Pur. Officer, Panama Canal, until Nov. 16, for furnishing four boring plates, two roller casings, four roller cages, four roller bearing sleeves, etc.

Va., Norfolk—Dredging—Bids will be received by H. R. Stanford, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a.m., Nov. 27, for dredging at navy yard, Norfolk.

Ohio, Cleveland—Dredging—Bids will be received at U. S. Engineer Office, Cleveland, until noon, Nov. 26, for dredging in Cleveland Harbor.

Tex., Ft. Bliss—Annex to Hospital—Bids will be received at office of Depot, Quartermaster, El Paso, until 11 a.m., Nov. 27, for rear annex to hospital at Ft. Bliss. (See adv.)

Tex., Ft. Sam Houston—Water Distributing System—Bids will be received at office of Constructing Quartermaster, Ft. Sam Houston, until 11 a.m., Nov. 18, for constructing water distributing system.

N. M., Carlsbad—Pipe Line Extension—No bids were received by U. S. Reclamation Service, Carlsbad, for Dark Canyon pipe line extension of the Carlsbad project, about two miles south of Carlsbad. Noted Oct. 7.

Wash., Meadow Creek—Clearing—Bids will be received at office of U. S. Reclamation, Meadow Creek, until 2 p.m., Dec. 1, for clearing reservoir site at Lake Keechelus.

Panama—Metal Supplies—Bids will be received by Major F. C. Boggs, Gen. Pur. Officer, Panama Canal, Washington, D. C., until 10.30 a.m., Nov. 10, for furnishing metal supplies.

Panama—Miscellaneous Supplies—Bids will be received by Major F. C. Boggs, Gen. Pur. Officer of Panama Canal, Washington, D. C., until 10.30 a.m., Nov. 17, for furnishing miscellaneous supplies.

Hawaii, Pearl Harbor—Building—Bids will be received at naval station, Pearl Harbor, and at Bureau of Yards and Docks, Navy Department, Washington, D. C., until 11 a.m., Nov. 27, for one reinforced-concrete power house, one reinforced-concrete operating building and one wooden double quarters at Pearl Harbor.

Bids In and Contracts Awarded

N. H., Concord—Post Office—Contract for post office at Concord awarded to JAMES MILES & SON CO., Worcester, Mass., at $42,987.

Mass., Boston—Building—Bids were received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for appraisers' stores, Boston, for construction complete as follows: Norcross Bros. Co., Worcester, $635,000; George Baker Long, Worcester, $617,800; P. J. Carlin Construction Co., 1123 Broadway, New York, N. Y., $611,000. Noted Oct. 21.

Mass., Boston—Flooring—All bids received Oct. 16 for reinforced-concrete floor in pattern shop, Building 42, U. S. Navy Yard, rejected. Work will be done by yard labor. Noted Sept. 30 and Oct. 28.

Conn., Naugatuck—Post Office—Contract for U. S. post office at Naugatuck awarded to W. H. FISSELL & CO., New York, N. Y., at $50,400. Noted Oct. 21.

Penn., Monongahela—Post Office—Bids were received Oct. 27 for U. S. post office at Monongahela as follows: James Devault, Canton, Ohio, $44,200; W. H. Batson, Moundsville, W. Va., $44,700; J. S. Rogers Co., Moorestown, N. J., $46,299. Noted Sept. 23.

Md., Baltimore—Building—Contracts for constructing U. S. Immigration Station, Baltimore, awarded as follows: General construction, WILLIAM DALL CO., Cleveland, Ohio, at $269,688; wharf, NORCROSS BROS. CO., Worcester, Mass., at $6,000; elevators, STANDARD PLUNGER ELEVATOR CO., Worcester, Mass., at $10,950. Noted Sept. 9.

D. C., Washington—Building—Bids were received Oct. 25 for truck house on New Jersey Ave. between D and E St., N. W., as follows: George E. Wyne, $34,950; Skinner & Garrett, $33,929; W. E. Mooney, $34,653.

D. C., Washington—Paving—Contracts for paving awarded to CRANFORD PAVING CO., Washington, for Q St. bridge and to WASHINGTON ASPHALT BLOCK AND TILE CO., Washington, for 12th and 14th St., S. E. Noted Oct. 7 and 28.

Va., Norfolk—Barracks—Contract for brick marine barracks building at navy yard awarded to P. F. GORMLEY CO., Washington, D. C., at $193,926. Noted Aug. 26 and Sept. 30.

Ind., Newcastle—Post Office—Bids were received Oct. 27 for post office at Newcastle, (a) limestone, (b) sandstone, as follows: Charles W. Gindele Co., Chicago, Ill., (a) $53,500; J. S. Rogers Co., Moorestown, N. J., (a) $52,999, (b) $56,000; R. P. Farnsworth & Co., (a) $36,856. Noted Sept. 23.

Ind., Seymour—Post Office—Bids were received Oct. 30 for post office at Seymour (a) limestone, (b) sandstone, as follows: Callahan-Mandl Co., Chicago, Ill., (a) $47,700, (b) $50,000; George W. Stiles Construction Co., Chicago, Ill., (a) $49,600; J. Fred Beggs, Scottsburg, (a) $49,500, (b) $49,600. Noted Sept. 23.

S. D., Newell—Pipe—Contract for constructing 3,285 lin. ft. of 60-in. and 450 lin. ft. of 24-in. continuous wood stave pipe for Belle Fourche Project awarded to PACIFIC TANK AND PIPE CO., San Francisco, Calif., at $12,454. Noted Sept. 2.

Mont., Malta—Reclamation—Contracts for reclamation work at Nelson Reservoir, South Canal, Milk River Irrigation Project, awarded as follows: Building structures to JURGENS, BOOTH & CO., Glasgow, at $34,081; earthwork and structures on Bowboin Canal, first unit, schedule 1 and 2, to JAMES O'CONNOR, Saco, at $18,618; schedule 3 and 4, to JURGENS, BOOTH & CO., Glasgow.

Mo., Kirksville—Post Office—Bids were received Oct. 28 for post office at Kirksville as follows: W. S. King, Lonoke, Ark., $28,850; Charles Wertz Sons., Des Moines, Iowa, $25,213; Mayben & Freuchtel, Gadsden, Ala., $29,730. Noted Sept. 23.

Okla., Ardmore—Post Office—Contract for post office at Ardmore awarded to G. W. STILES CONSTRUCTION CO., Chicago, Ill., at $129,200.

Colo., Montrose—Canal Work—Bids were received Oct. 20 for about 11 miles of Ironstone Canal, Uncompahgre Valley Project, as follows: Mendenhall, Bird & Co., Springvale, Utah, Items 1 and 4, $12,455; 7 to 10, $17,551; 13 to 16, $9,165; 19 to 22, $7,957; 25 to 28, $6,878; C. B. Sherwood, Rocky Ford, Colo., items 17 and 18, $5,775; 23 and 24, $5,742; 29 and 30, $5,164. Noted Sept. 30.

CANALS, DITCHES AND IRRIGATION

Proposed Work

Miss., Clarksdale—Ditches—Bids being received by A. L. Dabney, Engr., Porter Bldg., Memphis, Tenn., for 40,000 yd. ditches in Yazoo Yelta near Clarksdale.

La., Abbeville—Drainage—Citizens of Vermilion parish will vote on $200,000 bonds for drainage in Eighth Ward.

La., Estherwood—Drainage—Citizens voted $38,000 bonds for drainage.

Ill., Cairo—(Official)—Drainage—Dog-Tooth Bend Drainage and Levee District in Alexander County will be organized for drainage and levee purposes. C. A. Patier, Pres. of New York Mercantile Co., Cairo, Chn. of Comn. Oldfield & Brady Co., Cairo, Engr.

Ill., Cairo—Drainage—J. Berthe, Engr., Charleston, filed plans for drainage work in Mississippi County Drainage District No. 31. Estimated cost, $30,000.

Tex., Dallas—Drainage—Commissioners' Court of Dallas County contemplates drainage district in valley of Trinity River near Wilmer.

Wash., North Yakima—Irrigation—Bids will be received, according to press reports, for improvements to irrigation system of Union Gap Irrigation District of Yakima County. C. E. Udell, Secy.

Wash., Spokane—Drainage—Sawyer Bros., Spokane, prepared plans for drainage in Hoodoo Valley in Bonner County, about 14 miles.

Ore., Marshfield—Drainage—E. L. Robinson, Marshfield, retained by residents of Ten Mile District to prepare plans for drainage system. Estimated cost, $15,000.

Ore., Salem—Reclamation—Survey being made for reclamation district in French Prairie.

Calif., Lindsay—Irrigation—Voters of Strathmore-Lindslay Irrigation District voted in favor of forming an irrigation district. Estimated cost, $1,600,000. John Burr, Charles K. Towt and others interested. Noted Aug. 26.

Calif., Marysville—Ditches—Hallwood Irrigation Co. will build drainage ditches.

Bids In and Contracts Awarded

N. Y., Albany—Barge Canal Work—Eastover Construction Co., at $38,534, low bidder for state canal work on Canisteo River near Hornell.

N. Y., Albany—Barge Canal Work—E. Brown Baker, Herkimer, at $7,600, and State Highway Construction Co., Inc., Mohawk, at $6,640 bid on state canal work on Mohawk River and West Canada Creek at Herkimer. Bids opened Oct. 19.

N. Y., Albany—(Official)—Barge Canal Work—Contracts awarded by W. W. Wotherspoon, Supt. of Pub. Wks., for Terminal Contracts No. 20 and 50: WALSH CONSTRUCTION CO., Davenport, Iowa, $419,659 for No. 20 and to RHODY & CLAWSON, Albion, N. Y., at $967 for No. 50. Noted Sept. 30.

N. J., Trenton—Dredging—Contract for dredging first section of Inland Waterway connecting Barnegat Bay with Manasquan River awarded to D. X. SHUBIN, at $0.998 per cu.yd. Noted Oct. 14.

Tenn., Selmer—Drainage—Contract awarded to P. H. THRASHER, Selmer, by Hurricane Creek Drainage District Commissioners for drainage work.

Minn., Blue Earth—Ditches—(Official)—Contracts awarded to CARL C. KNUDSEN, Blue Earth, at $57,200 for fill work, and to MULGREW & SONS CO., Dubuque, Iowa, at $5,498 for open ditch for Judicial Ditch No. 9, and to PAUL PAULSEN, Carroll, Iowa, at $26,956 for Judicial Ditch No. 10. Noted Oct. 7.

Wyo., Rock Springs—Canal—Contract awarded to JOHN BUNNING for overflow canal.

Calif., Modesto—(Official)—Irrigation—Contracts awarded to C. W. RICHARDS, Oakdale, at $33,539 for No. 1; BARRETT & HILP, San Francisco, at $6,209 for No. 2, and PEART BROS., La Grange, at $2,500 for No. 3 for irrigation work in Modesto Irrigation District. Noted Oct. 14.

MISCELLANEOUS

Proposed Work

N. Y., New Hampton—Relayer Rail—Bids will be received by Katharine B. Davis, Comn. of Correction, Municipal Bldg., New York, N. Y., until Nov. 9, for 80 gross tons relayer rail at New Hampton Farms, New Hampton.

N. Y., New York—(Borough of Bronx)—Subway—Form of contract has been submitted to Public Service Commission of First District by Interborough Rapid Transit Co. for Section No. 2, Route Nos. 19 and 22, part of Southern Blvd. and Westchester Ave. branch of Lexington Ave. subway.

N. Y., New York—(Borough of Brooklyn)—(Official)—Station Finish—Bids will be received by Public Service Commission of First District, 154 Nassau St., New York, N. Y. (Borough of Manhattan), until 12:15 p.m., Nov. 5, for constructing station finish for 11 stations on Broadway-Fourth Ave. Rapid Transit R.R.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids will be received by Marcus M. Marks, Borough Pres., Municipal Bldg., New York, until 2 p.m., Nov. 12, for furnishing and delivering 5,000 bags of portland cement.

N. Y., New York—(Borough of Queens)—(Official)—Tracks—Bids will be received by Public Service Commission of First District, 154 Nassau St., New York, N. Y. (Borough of Manhattan), until 12.15 p.m., Nov. 12, for installation of tracks for a portion of Steinway Tunnel Rapid Transit R.R.

Md., Cumberland—(Official)—Fire-Alarm System—We have been informed that plans to improve fire-alarm system have been abandoned for the present. Noted Oct. 14.

Ohio, Newark—Subways—Baltimore and Ohio Railroad Co. approved plans for subways under tracks. Work will start Apr. 1. F. L. Stuart, Baltimore, Md., Ch. Engr.

Ill., Cairo—(Official)—Levee Repair. Bids will be received until noon, Nov. 10, by Rivers and Lakes Commission of Illinois for levee repairs in Cairo. Arthur W. Charles, Chn. (See adv.)

Kan., Arkansas City—Pipe Line—Lesh Pipe Line Co. being organized to build 4-in. pipe line from oil fields. Estimated cost, $25,000.

Kan., Coffeyville—Pipe Line—Citizens will build 16 miles pipe line from oil field. Estimated cost, $25,000.

Neb., Lincoln—Levee—State Irrigation Board contemplates levee system on Nemaha River at Missouri River.

Mo., Kansas City—Wall—Board of Park Commissioners contemplates wall in Slope Park. Estimated cost, $25,000.

Mo., St. Joseph—Speedway—Press reports state two-mile speedway will be constructed at Lake Contrary. John Prince, interested. Estimated cost, $2,000,000.

Mo., St. Louis—Flood Prevention—Board of Public Works contemplates elimination of River des Peres as flood menace. Estimated cost, $6,000,000. Noted Sept. 9.

Tex., Beaumont—(Official)—Machinery and Pier—Bids will be received until noon, Nov. 15, by J. G. Sutton, Secy. Wharf and Dock Commission for quay walls, trans-shipment shed and freight-handling machinery. Noted Oct. 21.

Okla., Bartlesville—Park Improvements—Citizens voted $45,000 bonds for park improvements.

Calif., Hermosa Beach—Bath House—Election will soon be held to vote on $40,000 bonds for bath house.

Calif., McKittrick—Pipe Line—General Petroleum Co. will build 6-in. pipe line from Bear Creek to Lost Hills, about 30 miles.

B. C., Victoria—Baths—Victoria and Island Development Association, Board of Trade Bldg., has had plans prepared for salt water baths on Dougals St. Estimated cost, $75,000.

Bids In and Contracts Awarded

Conn., New Haven—Coal Pocket—F. A. & D. R. Alling has awarded contract for coal pocket on Water St. to GUARANTEE CONSTRUCTION CO., 140 Cedar St. Estimated cost, $13,000.

N. J., Deal Beach—Bulkhead—Frank R. Stoneall, at $13,885, low bidder for concrete bulkhead.

Penn., Philadelphia—(Official)—Superstructures—McClintic-Marshall Co., Philadelphia, at $1,455,000 and $261,400, low bidder for superstructures for elevated railway in sections from Girard Ave. to Unity St., Frankford, and south of Girard Ave. to Callowhill St., respectively. Noted Sept. 30.

Ohio, Cincinnati—(Official)—Steel Tanks—Contract awarded to FERRO CONCRETE CONSTRUCTION CO., Richmond and Harriet St., Cincinnati, for steel tanks for Moore Oil Co. Noted Oct. 21.

Minn., Montevideo—Bulkhead—Contract awarded to MARSHALL CEMENT AND SIDEWALK CO., by County Commissioners for 15,305 ft. of concrete bulkhead.

Mo., Butler—Levees—Contract awarded to A. BENNEMA, Chicago, Ill., for levees along Marais des Cygnes River, about ten miles.

Calif., San Francisco—Esplanade—C. Lamburth, at $49,900, low bidder for beach esplanade. Noted Oct. 7.

Calif., San Francisco—Steamer—Contract awarded to UNION IRON WORKS, at $750,000, by Hind, Rolph & Co. for 410-ft. steamer.

Calif., San Francisco—Vessel—Contract awarded by Matson Navigation Co. to UNION IRON WORKS, at $1,000,000, for freight and passenger vessel.

Calif., San Francisco—Vessel—Contract awarded by Standard Oil Co. to UNION IRON WORKS, at $980,000, for oil tank vessel of 14,000 tons.

BUILDINGS

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

Proposed Work

Mass., Boston—Plans prepared by John C. Spofford, MacNaughton & Robinson, Archs., Boston, for riding hall for Norwich University. Estimated cost, $40,000.

Mass., Boston—Union Rescue Mission will build two-story building on Dover St. near Tremont St. Estimated cost, $45,000.

Mass., Ipswich—Plans being prepared by Edward F. Stevens, 9 Park St., Boston, for hospital.

Mass., Southbridge—Revised plans being prepared by Peabody & Stearns, 53 State St., Boston, for two-story, 138x104-ft., high school. Estimated cost, $100,000. Noted Aug. 12 and 26.

Mass., Springfield—Preliminary plans being prepared by Kirkham & Parlett, Archs., for addition to Howard St. school. Noted Sept. 16.

Mass., Worcester—Plans being prepared by Fuller & Delano Co., Arch., 44 Front St., for contagious hospital building.

R. I., Providence—Press reports state that new hotel will be constructed at an estimated cost of $1,300,000. Henry F. Lippitt and Stephen O. Edwards, interested.

Conn., New London—Revised plans being prepared by Ewing & Chappell, Archs., 101 Park Ave., N. Y., for three-story dormitory building for Connecticut College for Women. Bids will soon be received.

N. Y., Binghamton—Congregation of St. John's Parish plan to build new church. Estimated cost, $75,000.

N. Y., Buffalo—Bids will be received until Dec. 1 for purchase of $400,000 bonds for building and equipping public schools.

N. Y., Lockport—Citizens of Niagara County voted bonds for tuberculosis hospital. Estimated cost, $100,000.

N. Y., Niagara Falls—Board of Education plans to build new school.

N. J., Hoboken—Bids will soon be received for two-story, 88x112-ft. gymnasium for Stevens Technical College. Estimated cost, $80,000.

N. J., Hoboken—Board of Education plans an expenditure of approximately $260,000 for addition to high school, $70,000 for addition to School No. 3 and $146,000 for new school on Lincoln School site.

N. J., Jersey City—Plans being prepared for School No. 16 at Washington and Essex St.

Penn., Philadelphia—Bids will soon be received for a one-story building for the Beneficial Savings Fund Society. Estimated cost, $250,000.

Penn., Philadelphia—Bids will soon be received for 15-story office building of brick, stone and concrete at 16th and Market St. C. E. Oelschlager, Philadelphia, Arch.

Md., Baltimore—(Correction)—We have been advised that bids will not be received Nov. 15 for construction of building for Johns Hopkins University. Carrere and Hastings, 52 Vanderbilt Ave., New York, N. Y., Arch. Noted Oct. 21.

Md., Baltimore—Bids will be received about Dec. 1 for two-story, 40x62-ft., and three-story, 50x70-ft., gymnasium for the Y. W. C. A. Estimated cost, $50,000. Noted Sept. 30.

Va., Petersburg—Plans being prepared by Charles M. Robinson & Co., Richmond, for three schools. Estimated cost, $100,000.

Miss., Columbus—Press reports state that high school will be constructed at an estimated cost of $40,000.

La., Lake Charles—Bids will soon be received for high school. Estimated cost, $125,000. Noted Oct. 28.

Ohio, Akron—Arlington Street Baptist Church will build an addition to church and parsonage. Estimated cost, $60,000.

Ohio, Canton—Plans prepared by David Hum, Jr., and submitted to A. Stollbery for station for Baltimore & Ohio R.R. Estimated cost, $200,000.

Ohio, Cincinnati—Samuel Hannaford & Sons, Archs., will prepare plans for addition to Bethesda Hospital in Avondale. Estimated cost, $50,000.

Ohio, Cleveland—Plans being prepared by William C. Jansen, Arch., 403 O'Brien Bldg., for four-story, 60x145-ft. hospital addition for St. Alexis Hospital, Sisters of St. Francis. Estimated cost, $150,000.

Ohio, Cleveland—Bids being received by Charles S. Schneider, Arch., 2248 Euclid Ave., for two-story, 103x103-ft. auditorium for Plymouth Congregational Church. Estimated cost, $50,000. Noted July 29.

Ohio, Cleveland—Bids will soon be received by A. C. Edwards, Arch., 615 Union Bldg., for two-story, 100x116-ft. theater, store and office building for Yale Theater Co. Estimated cost, $40,000.

Ohio, Cleveland—Plans being prepared by Ferguson-Flanigan Co., Arch. and Contr., Vickers Bldg., for eight-story mercantile building at St. Clair Ave. and Ontario St., for Walton Realty Co. Estimated cost, $200,000.

Ohio, Cleveland—Bids will soon be received for detention home on Franklin Ave. Estimated cost, $90,000.

Ohio, Fremont—Memorial Hospital will be constructed at Fremont. About $200,000 available for this purpose.

Ohio, Steubenville—B. P. O. E. No. 231 plans two-story and basement, 65x120-ft. club house. Petersen & Clark, Arch., Nath Bldg. Estimated cost, $40,000.

Ind., Ft. Wayne—Hope Hospital Association will not build six-story hospital until spring. Estimated cost, $100,000.

Ind., Indianapolis—Wigwam Hotel will not build hotel, lodge rooms and auditorium until spring. Estimated cost, $250,000.

Ind., Portland—Preliminary plans being prepared for three-story, 90x160-ft. court house for Jay County. McLaughlin & Hulsken, Arch., 610 Savings Bldg., Lima, Ohio. Estimated cost, $275,000.

Mich., Detroit—Plans prepared by Albert Kahn, Arch., for Merchants and Manufacturers auditorium on Cass Ave.

Ill., Bloomington—Plans being prepared for library building for Illinois Wesley University. Estimated cost, $250,000.

Ill., Chicago—Cadillac Auto Co. will build eight-story and basement 100x160-ft. sales building at Indiana Ave. and 23d St. Estimated cost, $200,000.

Ill., Chicago—Press reports state that hotel to be known as Edgewater Hotel will be constructed at Balmoral Ave. and Sheridan Rd. Estimated cost, $1,000,000.

Ill., Moline—Antlered Tribe of Moline, B. P. O. E. plans to build new club house. Estimated cost, $100,000.

Ill., Springfield—Plans being prepared by Harry J. Reiger, Arch., 42 Ridgely Bank Bldg., for addition to Dubois School. Estimated cost, $75,000.

Iowa, Alta—Plans being prepared by Smith & Keffer, Arch., Des Moines, for new school. Estimated cost, $80,000.

Iowa, Cherokee—Plans will soon be prepared for a new hospital. Estimated cost, $50,000. W. Stiles, Chn. of Comrs.

Iowa, Ft. Dodge—Members of Congregational Church plan new church. Estimated cost, $55,000.

Minn., Duluth—Bids will soon be received for municipal building. F. G. German, Arch.

Minn., Minneapolis—Union City Mission plans to build a 12-story hotel on Second St., N. Estimated cost, $120,000.

Minn., St. Paul—Plans being prepared by C. H. Johnston, Arch., for State Historical Society Building. Estimated cost, $500,000.

Minn., St. Paul—Revised plans prepared for passenger station for Union Depot Co. W. C. Armstrong, Engr.

Minn., St. Paul—Part of uncompleted building at Sixth and St. Peter St. for Mannheimer Bros. will be remodeled into a hotel. Estimated cost, $1,000,000.

Kan., Emporia—Bids will soon be received for Preston B. Memorial Building at State Normal School. Estimated cost, $175,000.

STORM WATER DRAINAGE SYSTEM, ATLANTIC CITY, N. J.

Bids were received Oct. 7 for the extension of the storm-water drainage system from (A) James Ferry & Sons, Inc., Baltimore, Md.; (B) M. B. Markland, Atlantic City; (C) Culp Co., Inc., Paterson; (D) Atlantic Construction and Supply Co., Atlantic City; (E) Empire Construction Co., New York, N. Y.; (F) Dock Contractor Co., Hoboken; (G) Edward L. Bader, Atlantic City; (H) Whiting-Turner Construction Co., Baltimore, Md. The item bids were as follows:

	A	B	C	D	E	F	G	H
17 lin.ft. 4ft. x 2 ft., 6 in. concrete drain	$14.60	$20.00	$11.31	$14.92	$10.70	$11.49	$16.00	$14.76
358 lin.ft. 4 ft. x 2 ft. concrete drain	12.70	13.69	11.31	13.55	10.70	11.01	14.00	13.41
3[illegible] lin.ft. 3 ft., 6 in. x 2 ft. concrete drain	10.90	10.00	11.02	12.47	10.10	10.37	13.00	12.65
575 lin.ft. 3 ft. x 2 ft. concrete drain	10.80	12.65	10.94	12.63	10.07	10.02	12.80	12.07
263 lin.ft. 48-in. brick and concrete drain	17.60	16.50	13.92	15.50	14.52	14.00	16.70	17.38
520 lin.ft. 39-in. brick and concrete drain	13.10	14.05	11.83	14.70	11.60	12.50	17.20	15.10
105 lin.ft. 36-in. brick and concrete drain	16.20	9.45	10.53	12.23	10.27	11.57	14.80	14.94
810 lin.ft. 33-in. brick and concrete drain	7.80	8.00	7.18	9.10	7.15	8.88	10.90	10.78
2,148 lin.ft. 30-in. brick and concrete drain	6.90	7.90	7.00	8.70	6.92	8.46	10.40	9.61
2,282 lin.ft. 27-in. brick and concrete drain	5.50	7.00	6.88	7.74	6.48	7.70	9.60	8.74
2,154 lin.ft. 24-in. terra cotta drain	4.80	6.75	7.25	7.80	5.75	7.74	9.00	8.89
1,726 lin.ft. 22-in. terra cotta drain	4.40	6.35	6.55	7.00	5.40	7.00	8.15	8.35
802 lin.ft. 20-in. terra cotta drain	4.10	6.15	6.11	6.45	5.21	6.66	8.15	7.93
544 lin.ft. 18-in. terra cotta drain	3.30	6.70	5.86	5.70	4.93	6.30	7.00	7.40
1,315 lin.ft. 15-in. terra cotta drain	2.70	5.55	5.00	4.90	4.34	6.01	6.40	6.75
267 lin.ft. 12-in. terra cotta drain	2.30	4.50	4.00	3.55	3.67	5.22	5.50	5.60
2,657 lin.ft. 12-in. terra cotta inlet pipe	1.90	1.80	2.55	2.35	3.62	4.69	2.90	4.90
3,756 lin.ft. 10-in. terra cotta inlet pipe	1.80	1.60	2.50	2.10	3.44	4.55	2.65	4.50
394 lin.ft. vertical manholes	6.00	6.00	5.50	6.50	12.50	12.98	4.00	6.50
62 lin.ft. manhole frames and covers	10.00	9.00	9.25	9.00	21.60	11.01	9.50	10.00
209 storm water inlets	25.00	20.00	25.00	30.00	40.00	32.35	26.00	45.00
209 hood traps	4.00	3.50	3.60	3.60	7.00	2.32	4.00	4.00
104 lin.ft. catch basins	45.00	80.00	80.00	68.00	105.00	92.80	75.00	137.00
12,700 lin.ft. underdrain	.30	.20	.36	.21	.25	.53	.30	.36
21,700 lin.ft. piles	.30	.30	.30	.30	.50	.29	.30	.38
2 concrete bulkheads (lump sum)	1,000.00	1,000.00	1,000.00	800.00	1,000.00	850.00	500.00	680.00
Extended totals	$125,921	$147,856	$150,038	$159,598	$159,754	$181,043	$183,837	$205,185

Kan., Winfield—Capitalists of Winfield contemplate hotel at Main St. and Ninth Ave. Estimated cost, $200,000.

Mont., Hardin—T. J. Daniel, A. L. Nitchell and Walter O. Lee are interested in the construction of a two-story, 100x150-ft. hotel. Estimated cost, $50,000.

Mo., Maryville—(Official)—Wilder & Wight, Kansas City, Mo., preparing plans for bank for Farmers Trust Co.

Mo., Springfield—Presbyterian Church plans tabernacle at Cherry St. and Blvd. Estimated cost between $50,000 and $75,000.

Ark., Ft. Smith—St. Edwards Infirmary will build hospital annex at North 15th St. Estimated cost, $100,000.

Tex., El Paso—Plans being prepared for bank and office building for Rio Grando Valley Bank and Trust Co. Estimated cost, $150,000.

Tex., El Paso—F. P. Miller interested in construction of cathedral for Scottish Rite Masons. Estimated cost, $200,000.

Tex., Houston—Bids will be received about Nov. 15 for the Taylor School. Estimated cost, $90,000.

Idaho, Bonners Ferry—G. W. Sperry plans to build a hotel on Main St. Estimated cost, $60,000.

Ariz., Kingman—Plans being prepared by Norman F. Marsh, Arch., Broadway Central Bldg., Los Angeles, Calif., for a two-story high school for Kingman Union High School district. Estimated cost, $50,000.

Wash., Bellingham—Bids will soon be received for constructing the Central High School. Estimated cost, $75,000.

Wash., Seattle—A four-story, 60x120-ft. reinforced-concrete office building will be constructed on the site of the Alaska Theater Bldg. Estimated cost, $75,000.

Wash., Tacoma—Bids will soon be received by Luther Twitchell, Arch., Savage-Scofield Bldg., for a three-story brick and concrete addition to the Bankers Trust Bldg., Pacific Ave. Estimated cost, $50,000. Noted Sept. 9.

Calif., El Centro—S. B. Zimmer, Arch., El Centro, will prepare plans for high school for Central Union high school district. Estimated cost, $135,000.

Calif., Fresno—Plans prepared by Kraft & Son, Arch., San Francisco, for hospital at Fresno and S St. for Burnett Sanitorium Association. Estimated cost, $75,000.

Calif., Los Angeles—Plans being prepared by J. C. Austin, Arch., Baker-Detwiller Bldg., for church for First Methodist Episcopal Church. Estimated cost, $250,000.

Calif., Sacramento—Plans being prepared by R. R. Herold, Arch., for first three units of proposed new county hospital. Estimated cost, $400,000.

Calif., San Bernardino—Plans being prepared by Elmore R. Jeffery and Frank R. Schaeffer, Archs., Wesley Roberts Bldg., Los Angeles, for church for First Congregational Church of San Bernardino. Estimated cost, $50,000.

Calif., San Francisco—Plans prepared by Willis Polk, Arch., for 12-story building at Pine and Montgomery St. for McCreely Estate. Estimated cost, $350,000.

Calif., San Francisco—Plans being prepared by Willis Polk & Co. for building for Western Union Telegraph Co. Estimated cost, $350,000.

Ont., Orillia—Election will be held to vote on $50,000 bonds for City Hall building.

Ont., Toronto—Plans prepared by Clinton & Russell, Arch., for seven-story office building at Church and Court St. for Imperial Oil Co. Noted Oct. 7.

Alaska, Valdez—S. Blum & Co. plans to build a three-story department store building. Estimated cost, $45,000.

Bids In and Contracts Awarded

Mass., Boston—(Roslindale)—All bids rejected for church of Our Saviour. Estimated cost, $50,000.

Mass., Boston—(Roxbury)—All bids received for High School of Practical Arts rejected. Noted Oct. 28.

Mass., Chicopee—Contract for school for St. Stanislaus Polish Church Society awarded to CAGNON & ANGIER, Springfield. Noted Sept. 23.

Mass., Fall River—Darling-Slade Construction Co., Newport, R. I., at $83,000 low bidder for remodeling City Home.

Conn., New Haven—Contract awarded to GEORGE A. FULLER CO., for three-story, 50x144-ft., administration building on Howard Ave., three-story, 54x144-ft., pathological laboratory for General Hospital Society of Connecticut. Noted Sept. 16.

BARGE CANAL WORK, ALBANY, N. Y.

Contract No. 20

Bids were received Oct. 26 by W. W. Wotherspoon, State Supt. of Pub. Wks., for Barge Canal Work, Contract No. 20 from (A) James Stewart & Co., Inc., New York; (B) Walsh Construction Co., Inc., Davenport, Iowa; (C) Sherman Stalter Co., Lyons, N. Y.; (D) T. W. Kinser, St. Louis, Mo.; (E) Larkin & Sangster, Seneca Falls, N. Y.; (F) New York State Dredging Corporation, Rochester; (G) Henry P. Burgard, Buffalo; (H) Eastover Construction Co., Utica; (I) John Young, Syracuse; (J) Great Lakes Dredge and Dock Co., Buffalo; (K) Cleveland Sons Co., Brockport; (L) Central Dredging Co., Cleveland, Ohio; (M) Holler & Shepard, Rochester; (N) State Highway Construction Co., Beacon; (O) T. A. Gillespie, New York; (P) American Pipe and Construction Co., Philadelphia, Penn.; (Q) Grant Smith & Co., Rome; (R) Edwin String; (S) H. S. Kerbaugh, Inc., Buffalo. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J
Clearing (lump sum)	$50.00	$50.00	$50.00	$50.00	$50.00	$50.00	$50.00	$50.00	$50.00	$50.00
Removing buildings (lump sum)	8,400.00	1,500.00	3,600.00	10,000.00	12,000.00	8,000.00	10,000.00	10,000.00	10,000.00	10,000.00
1,030,000 cu.yd. excavation	.19	.186	.21	.24	.32	.25	.235	.21	.27	.235
20 M ft. b.m. sheeting and bracing	40.00	45.00	50.00	50.00	50.00	35.00	50.00	30.00	50.00	50.00
10,400 cu.yd. forming embankment	.15	.20	.15	.20	.20	.20	.20	.10	.20	.20
85,000 lin.ft. foundation piles	.34	.26	.25	.35	.32	.40	.35	.40	.27	.33
110 fender piles	20.00	15.00	15.00	20.00	20.00	24.00	20.00	20.00	20.00	20.00
790 M ft. b.m. sawed lumber	46.00	36.00	38.00	50.00	40.00	35.00	40.00	35.00	45.00	45.00
33 M ft. b.m. sawed lumber in bridge floor	65.00	55.00	55.00	65.00	65.00	50.00	75.00	65.00	60.00	65.00
8,700 cu.yd. stone filling in cribs	1.70	1.90	1.85	2.00	1.75	1.10	2.00	1.25	1.75	1.50
9,500 cu.yd. second class concrete	7.50	6.00	7.00	7.50	6.75	6.50	7.50	7.50	5.50	7.40
400,000 lb. structural steel	.04	.04	.04	.04	.04	.04	.045	.04	.04	.041
260 lin.ft. lattice railing	2.25	1.75	2.00	2.00	2.00	2.00	1.25	2.20	2.00	5.00
18,000 lb. iron castings, plain	.04	.04	.033	.04	.04	.04	.035	.04	.04	.04
3,300 lin.ft. malleable cast iron nosing	1.25	1.00	1.15	1.25	1.25	1.25	1.20	1.25	1.50	1.25
46,000 lb. metal reinforcement	.03	.026	.036	.035	.035	.035	1.15	.035	.03	.03
550 fender fastenings	1.20	1.00	1.20	1.20	1.20	1.20	3.00	1.20	1.20	1.20
38,000 sq.ft. steel sheet piling	1.05	.90	.75	1.15	1.15	1.10	3.50	1.35	.90	1.00
7,000 cu.yd. wash wall	3.00	2.50	2.20	3.00	3.00	2.00	1.00	1.50	3.00	3.00
2,500 cu.yd. third class rip-rap	3.00	2.50	3.10	3.00	3.00	2.50	1.50	3.00	3.00	3.00
3,300 cu.yd. taking up and relaying rip-rap	1.00	1.00	1.00	1.00	1.00	1.00	1.50	1.20	1.00	1.00
450 sq.yd. paved gutters	1.50	1.20	1.50	1.50	1.50	1.50	.15	1.50	1.50	1.50
4,300 cu.yd. gravel surfacing	1.50	1.30	1.35	1.50	1.35	1.75	.30	1.50	1.50	1.30
7,400 lin.ft. drains	.15	.12	.15	.15	.15	.15	....	.15	.15	.15
1,100 lin.ft. wooden fence	.30	.25	.30	.30	.30	.30	....	.30	.25	.30
Maintaining highway traffic (lump sum)	750.00	750.00	1,000.00	1,000.00	1,000.00	900.00	.....	1,000.00	1,000.00	990.00
Cofferdams, pumping, bailing and draining	10,000.00	4,500.00	9,000.00	11,000.00	12,500.00	6,000.00	.....	10,000.00	10,000.00	10,000.00
Extended totals (lump sum)	$481,705	$419,659	$455,935	$542,275	$597,325	$511,115	$532,805	$492,622	$539,800	$519,375

	K	L	M	N	O	P	Q	R	S
Clearing (lump sum)	$50.00	$50.00	$50.00	$50.00	$50.00	$50.00	$50.00	$50.00	$60.00
Removing buildings (lump sum)	10,000.00	10,000.90	5,000.00	10,000.00	9,500.00	10,000.00	10,000.00	1,100.00	12,000.00
1,030,000 cu.yd. excavation	.27	.24	.32	.26	.30	.28	.32	.26	.23
20 M ft. b.m. sheeting and bracing	50.00	40.00	42.00	55.00	51.00	60.00	60.00	60.00	60.00
10,400 cu.yd. forming embankment	.18	.20	.20	.20	.18	.20	.25	.15	.24
85,000 lin.ft. foundation piles	.30	.25	.28	.30	.35	.38	.35	.40	.40
110 fender piles	20.00	15.00	20.00	20.00	16.50	26.00	25.00	14.00	20.00
790 M ft. b.m. sawed lumber	45.00	38.00	45.00	45.00	45.55	40.00	55.00	40.00	35.00
33 M ft. b.m. sawed lumber in bridge floor	65.00	50.00	62.50	65.00	57.60	65.00	70.00	70.00	55.00
8,700 cu.yd. stone filling in cribs	1.10	2.00	2.40	2.00	2.05	1.50	3.00	1.50	1.00
9,500 cu.yd. second class concrete	7.25	6.50	6.90	6.50	7.25	7.90	8.50	8.00	7.50
400,000 lb. structural steel	.04	.04	.04	.04	.04	.04	.05	.04$	.04
260 lin.ft. lattice railing	2.00	2.00	2.50	2.00	2.25	2.00	2.00	2.10	2.40
18,000 lb. iron castings, plain	.04	.04	.04	.04	.04	.04	.04	.045	.03
3,300 lin.ft. malleable cast iron nosing	1.25	1.50	1.10	1.25	1.25	1.50	1.50	1.25	1.10
46,000 lb. metal reinforcement	.03	.03	.031	.03	.03	.03	.04	.04	03
550 fender fastenings	1.20	1.00	1.20	1.00	1.20	1.20	1.20	1.25	1.10
38,000 sq.ft. steel sheet piling	1.15	1.00	.95	.95	1.10	1.25	1.00	1.00	1.25
7,000 cu.yd. wash wall	2.75	3.00	2.90	2.00	3.00	1.50	3.00	2.50	2.00
2,500 cu.yd. third class rip-rap	2.50	3.00	3.00	3.00	3.50	3.00	3.00	3.00	2.00
3,300 cu.yd. taking up and relaying tip-rap	1.00	1.00	1.00	1.00	1.25	1.00	2.50	1.20	1.00
450 sq.yd. paved gutters	1.50	1.50	1.25	1.50	1.50	1.50	1.50	1.50	1.50
4,300 cu.yd. gravel surfacing	1.50	1.50	1.50	1.25	1.75	1.50	1.50	1.25	1.25
7,400 lin.ft. drains	.15	.18	.15	.15	.15	.15	.25	.15	.16
1,100 lin.ft. wooden fence	.30	.30	.27	.25	.33	.30	.35	.35	.35
Maintaining highway traffic (lump sum)	1,000.00	1,000.00	1,000.00	500.00	600.00	1,000.00	1,000.00	500.00	12,000.00
Cofferdams, pumping, bailing and draining	11,000.00	11,000.00	10,000.00	7,000.00	11,000.00	11,000.00	11,000.00	12,000.00	12,000.00
Extended totals (lump sum)	$588,712	$516,512	$597,398	$530,095	$598,020	$571,900	$653,360	$554,223	$511,989

Conn., Stratford—Stratford Trust Co. awarded contract to S. W. HUBBELL BUILDING CO., Bridgeport, for bank building.

N. Y., Syracuse—Contract awarded to ONONDAGO BUILDING AND CONSTRUCTION CO., at $201,458, for Delaware School at Delaware and Geddes St. Noted Oct. 21.

N. J., Trenton—Contract for a stone and concrete building for State Hospital of New Jersey awarded to GEORGE B. WILLS & CO., New York, N. Y., at $42,887.

Va., Lexington—Contract for Jackson Memorial Hall at Virginia Military Institute awarded to J. L. CROUSE, Greensboro, N. C., at $89,662.

Va., Lynchburg—Contract awarded to J. P. PETTYJOHN & CO., Lynchburg, for three-story, 70x106-ft., school for Virginia Episcopal School. Estimated cost, $57,000.

Va., Roanoke—Contract for auditorium, armory and convention hall awarded to C. H. TURNER, at $41,275, for Roanoke Auditorium Co. Noted Oct. 21.

Ohio, Cincinnati—(Madisonville)—Contract for group of buildings for Children's Home to be constructed at Madisonville awarded to M. MARCUS BUILDING CO. Estimated cost, $100,000. Elzner & Anderson, Arch.

Ohio, Cincinnati—Contract awarded to FERRO CONCRETE CONSTRUCTION CO., at $455,469, for five buildings for the Board of Education.

Ohio, East Cleveland—Contract for additions to Chambers and Rozelle schools awarded to CLEVELAND FIREPROOF CONSTRUCTION CO., 650 Rockefeller Bldg., Cleveland. Estimated cost, $100,000.

Ohio, Oxford—(Official)—Contract awarded to SIMS & BENZING, Hamilton, at $40,093, for pavilion at Miami University.

Ind., Evansville—Contract for Hotel McCurdy awarded to CALDWELL-MARSHALL CO., Columbus, at about $450,000. Noted Sept. 9.

Mich., Wahjamega—(Caro post office)—Farm Colony for Epileptics awarded contract to FRANK L. SHOEMAKER CO., Kalamazoo, for two buildings. Estimated cost, $90,000.

Ill., Peoria—Contract for addition to store building of Block & Kuhl at Adams and Fulton St. awarded to V. JOBST & SONS, at about $150,000.

Ill., Rock Island—Contract for three-story, 82x130-ft., school at Ninth and 12th Ave. awarded to BUILDING CONSTRUCTION CO., Chicago, at $61,970. Noted Oct. 7.

Iowa, Jefferson—Contract for Green County Courthouse awarded to ROWLES CO., Onawa, at $127,327.

Minn., Crosby—Board of Education awarded contract for two-story brick high school to JACOBSON BROS., Duluth. Estimated cost, $100,000. Noted Aug. 5 and 19.

Minn., Minneapolis—Contract for three-story brick and terra-cotta building for N. Geanakoplos awarded to R. J. CHENEY & CO. Estimated cost, $50,000.

Mont., Billings—Contract for addition to Northern Hotel awarded to GAGNON & CO., Billings. Estimated cost, $65,000.

Mo., St. Louis—Contract for a laboratory for the Luyties Pharmacy Co. at 4,200 Laclede Ave. awarded to GAMBLE CONSTRUCTION CO. Estimated cost, $50,000.

Ark., Newport—Contract for building for Arkansas Bank & Trust Co. awarded to BURKE CONSTRUCTION CO., Hattiesburg, Miss., at about $41,000.

Tex., Dallas—Contract for addition to College of Industrial Arts awarded to GILSONITE CONSTRUCTION CO., St. Louis, at $87,000.

Calif., Ventura—Bids were received Oct. 18 for two cottages and detention building for California State School for Girls: King Co., $43,333; F. O. Engstrum, $45,987; L. Bergren & Son, $48,472. Noted Oct. 7 and 28.

Que., Quebec—(Limoilou)—School Commissioner awarded contract to EDWARD BELANGER for school. Estimated cost, $50,000.

CATALOG NOTICES

Independent Pneumatic Tool Co., Thor Bldg., Chicago, Ill. Circular. Thor pneumatic drills, hammers, riveters, etc. Illustrated.

Kingsford Foundry & Machine Works, Oswego, N. Y. Catalog No. 18. Turbine pumps, type L. Illustrated, 22 pp., 6x9 in.

The Berger Mfg. Co., Canton, Ohio. Catalog. Concrete reinforcing and furring plates, expanded metal lath, pressed steel cores. Illustrated, 82 pp., 6x9 in.

ELEVATED RAILWAY WORK, PHILADELPHIA, PENN.

Bids were received by the Department of City Transit, Oct. 19, for constructing the steel superstructure and appurtenant work for the Frankford Elevated Railway from (A) McCLINTIC-MARSHALL CONSTRUCTION CO., Morris Bldg., Philadelphia (awarded contract); (B) E. E. Smith Contracting Co., New York, N. Y.; (C) Conners Bros. Co., Inc., New York, N. Y. The item bids were as follows:

	A	B	C
Contract No. 515 (grouping contracts 512 and 513—for the whole work as shown on the plans (lump sum)		$1,109,130	$1,104,000
Contract No. 516 (grouping contracts 512 and 514—for the whole work as shown on the plans (lump sum)		1,095,564	1,089,000
Contract No. 517 (grouping contracts 513 and 514 —for the whole work as shown on the plans (lump sum)		1,235,728	1,229,000
Contract No. 518 (grouping contracts 512, 513 and 514—for the whole work as shown on the plans (lump sum)	$1,455,000	1,720,211	1,684,000
10,000 lb. riveted steel girders	0 0315	0 0425	0 04
10,000 lb. rolled steel beams	0 029	0 0425	0 04
10,000 lb. steel columns	0 04	0 0425	0 04
10,000 lb. steel rods	0 04	0 03	0 035
10,000 lb. iron castings	0 025	0 04	0 05
100 cu.yd. excavation	1 25	2 00	2 00
100 cu.yd. concrete	10 00	8 00	7 50
100 sq.yd. asphalt paving	4 50	2 50	3 00
100 sq.yd. new granite block paving	4 50	4 00	3 50
100 sq.yd. new vitrified block paving	4 50	3 00	3 00
100 sq.yd. new wood block paving	4 50	4 00	3 50
100 sq.yd. granite, wood or vitrified block repaving, concrete base	2 25	4 00	2 25
100 sq.yd. granite, wood or vitrified block repaving, gravel base	2 00	3 00	1 50
100 sq.yd. granolithic sidewalk paving	1 50	2 00	1 50
100 sq.yd. flagstone sidewalk repaving	75	3 00	1 00
100 sq.yd. brick sidewalk paving	1 00	2 00	3 00
100 lin.ft. 6-in. straight granite curb	1 00	1 50	3 25
100 lin.ft. 8-in. straight granite curb	1 20	2 50	3 50
100 lin.ft. 6-in. or 8-in. curved granite curb	2 25	3 00	4 00
100 lin.ft. granolithic curb	85	1 00	80
100 lin.ft. resetting stone curb	50	60	30
1 M ft. b.m. yellow pine lumber	55 00	40 00	55 00
Extended total, contract No. 515		$1,125,380	$1,118,950
Extended total, contract No. 516		1,111,814	1,103,950
Extended total, contract No. 516	$1,476,555	1,744,586	1,706,485

The New York Municipal Railway Corporation has applied to the Public Service Commission for the First District for permission to enter into a contract with the George W. McNulty Co., for the construction of the Coney Island terminal of its elevated railroads. The company, in its application, states that the McNulty Co., in its opinion, is well equipped to do the work, and that the prices which it agrees to perform the work for are reasonable. The McNulty Co. is the same concern which constructed the Sea Beach line for the New York Municipal Railway Corporation. That corporation says the Sea Beach work was very satisfactory, and it believes that by letting the Coney Island terminal contract to the same company it will get as satisfactory work.

The Public Service Commission for the First District and the New York Dock Co. have perfected an agreement which, it is estimated, will save the City of New York at least $500,000 in the cost of construction of the new subways and will result in the immediate expenditure of at least $1,250,000 by the company for the improvement of the Brooklyn waterfront between Fulton St. and Atlantic Ave. The improvement contemplates the replacement of the existing piers, which are about 400 ft. long, by five new piers, which will be from 640 to 750 ft. in length, more than doubling the capacity of the piers and making possible the accommodation of much larger vessels than can be taken care of with the present pier space. Incidentally, three of the new piers will be erected over the existing subway tunnel in Joralemon St., and the two new subway tunnels in Montague and Clark St., so that absolute protection will be afforded for these tubes. The agreement provides for the purchase by the City of easement rights for the new subway at the foot of Clark St., Brooklyn, for $275,000, and that the Dock Co. will agree to pay at least $75,000 for property owned by the city at the foot of Montague St. and at least $25,000 for property owned by the city at the foot of Joralemon St., Brooklyn. In other words the City will acquire the Clark St. easement for $175,000 net, and the Dock Co. will be able to make the improvements above mentioned.

BRIDGE, LYONS FALLS, N. Y.

Bids were received Oct. 19 by W. W. Wotherspoon, State Supt. of Pub. Wks., for constructing a bridge over the Moose and Black Rivers at Lyons Falls from (A) Lupfer & Remick, Buffalo; (B) Walter S. Rae, Pittsburgh, Penn.; (C) Jackson & Richmond, Grant; (D) Lathrop, Shea & Henwood Co., Buffalo; (E) Chesley, Earl & Heimbach, Inc., Buffalo; (F) John Young, Syracuse; (G) Eastover Construction Co., Inc., Utica; (H) Scott Bros., Rome. The item bids were as follows:

	A	B	C	D	E	F	G	H
5,200 cu.yd. excavation	$0.95	$0.60	$0.40	$0.70	$0.70	$0.75	$0.90	$0.70
300 cu.yd. lining	.65	1.00	1.00	1.25	1.50	1.50	1.50	1.25
4,100 lin.ft. foundation piles	.35	.32½	.40	.30	.30	.60	.45	.35
1,500 cu.yd. second-class concrete	8.00	6.00	7.50	6.50	6.75	6.75	7.50	6.50
736,000 lb. structural steel	.0428	.043	.044	.042	.0425	.05	.0417	.044
500 lb. metal reinforcement	.04	.04	.04	.04	.04	.04	.04	.04
475 lin.ft. lattice railing	2.00	1.90	2.00	1.75	2.00	2.00	2.25	2.00
40 lin.ft. wrought iron pipe railing	1.25	1.25	1.25	1.25	1.25	1.25	1.50	1.25
1,050 lin.ft. wooden fence	.25	.25	.25	.25	.25	.25	.26	.25
40 cu.yd. third-class rip-rap	1.50	2.00	2.50	3.00	2.50	2.50	2.00	2.50
19.5 M ft. b.m. sawed lumber untreated	40.00	48.00	55.00	50.00	60.00	60.00	65.00	55.00
40.5 M ft. b.m. sawed lumber treated	45.00	69.00	65.00	70.00	80.00	80.00	90.00	75.00
65 sq.yd. cobblestone gutter	1.00	1.00	1.50	1.80	1.50	1.50	1.50	1.50
Cofferdams, pumping, bailing and draining (lump sum)	3,600.00	3,200.00	3,000.00	2,800.00	3,000.00	3,000.00	3,500.00	3,600.00
Maintaining highway traffic (lump sum)	1,200.00	1,200.00	1,000.00	1,000.00	1,000.00	1,000.00	1,000.00	1,200.00
Totals	$58,880.80	$54,911.00	$56,839.00	$54,917.75	$56,615.00	$63,625.00	$59,927.95	$57,974.00

The Marked Decline in Idle Cars—The decline in idle cars on railroads of the United States and Canada during September, as reported by the American Railway Association, was greater than in any previous month for several years. Total number of cars idle Oct. 1 was 78,299, a decrease of 106,710 cars, or 57%, from Sept. 1. There has been a continuous monthly lessening of idle cars since last May, and aggregate decrease of the last four months was 222,254 cars. The September declines were apportioned among the three various classes of freight cars as follows: Box, 62,764; flat, 3,724; and coal, 25,275. Flat and coal cars decreased every month since May and box cars every month in that period except July, when there was a slight increase. As compared with the same period in previous years, the total idle cars Oct. 1 this year was 52,728 less than in 1914 and 67,825 more than 1913. As there was a net shortage of 31,579 cars on Oct. 1, 1912, the figures for this year represent an increase of 109,878. There are less box cars idle now than a year ago, but more than in either 1913 or 1912, when net shortages were reported. Idle flat and coal cars this year are fewer than in 1914, but more than in the two preceding years. At this time three years ago there was a net shortage of all classes of cars. The following table compares the idle cars by classes on Oct. 1, over a period of four years:

Oct. 1	1915	1914	1913	1912
Box cars	36,254	55,131	*1,189	*28,048
Flat cars	6,368	8,733	1,207	*2,997
Coal cars	13,312	37,224	*2,440	*8,406
Total cars	78,299	131,027	10,374	*31,579

*Net shortage.

The manner in which increased freight movement all over the country is lowering the number of idle cars is reflected in the recent statements of the Pennsylvania R.R. system, which show that for nearly two months past there have been no good order cars out of service on any of the Pennsylvania lines.

The United States Steel Corporation issued the following statement of earnings, covering the quarter ending Sept. 30, 1915. The following shows comparison with the same quarter of 1914:

	1915	1914
July earnings	$12,048,218	$7,475,993
August earnings	12,869,099	7,584,926
September earnings	13,793,327	7,215,083
Total earnings after deducting all expenses incident to operations, including those for ordinary repairs and maintenance of plants and interest on bonds of subsidiary companies	$38,710,644	$22,276,002
Less charges and allowances for depreciation, viz.:		
Sinking funds on bonds of subsidiary companies and depreciation and extraordinary replacement funds	7,028,034	6,017,922
Sinking funds on U. S. Steel Corporation bonds	1,636,819	1,576,058
Net income	$30,045,791	$14,682,022
Deduct interest for the quarter on U. S. Steel Corporation bonds outstanding and premium payable on bonds redeemable under sinking funds	5,703,631	5,746,111
Balance	$24,342,160	$8,935,911
Dividends for the quarter on stocks of the U. S. Steel Corporation, viz:		
Preferred	6,304,919	6,304,919
Common	.....	2,541,513
Surplus for the quarter	$18,037,241	$89,479

Municipal Bond Sales Larger—Municipal bond issues throughout the United States during the month of October, including state and county flotations, reached a total of $27,816,300, against $21,215,600 the previous month and $13,141,429 in October, 1914. This brings the total for the ten months of 1915 up to $388,858,100, as compared with $451,023,510 for the corresponding period last year. The feature of the month's transactions was the sale of $3,000,000 bonds of the Imperial Irrigation District of California, which were taken by the Southern Pacific Co. The State of California also sold an issue of $1,800,000 University of California bonds. Another important issue, amounting to $2,668,000, was that disposed of by the city of Pittsburg.

The following table shows the output of permanent municipal bond issues for the month of October and the ten months in previous years:

	Month of October	For the Ten Months
1914	$13,141,429	$415,023,510
1913	39,698,091	327,902,805
1912	27,958,999	345,871,920
1911	26,588,621	341,992,191
1910	27,037,207	258,958,249
1909	16,377,836	288,767,287
1908	14,097,829	257,310,946
1907	9,793,358	209,516,322
1906	14,819,277	167,971,622
1905	7,915,496	148,937,223
1904	10,299,995	208,221,052
1903	12,196,885	123,942,878
1902	5,488,424	123,167,279
1901	9,779,197	109,103,198
1900	16,421,185	113,615,626
1899	9,314,854	104,341,291
1898	4,906,607	88,057,166
1897	6,872,293	113,259,756
1896	4,688,463	60,917,879
1895	6,697,012	98,950,928
1894	8,685,435	99,140,271
1893	11,839,373	52,813,939
1892	11,766,420	75,350,254

Opens Lumber Export Market

Commercial Agent Franklin H. Smith of the Bureau of Foreign and Domestic Commerce has returned to the United States and is ready to confer with lumber dealers and exporters, according to an announcement just made by the Department of Commerce. Mr. Smith has been traveling for the Bureau during the last fourteen months in the Far East, Australia and New Zealand, making an extensive investigation of the markets for American lumber in those regions. He is now in Seattle, Wash., and is expecting to make a trip to the principal centers of the lumber trade on the west coast to confer personally with lumber producers and exporters and give them the benefit of the information he has collected. The Department said:

"Mr. Smith's investigation covered all phases of the lumber markets in the Far East and Australia, including the sources of the present supply, the satisfaction of consumers with their present material, the prices which American producers would have to meet, the extent to which wood using industries have developed, and the methods by which the present trade is carried on. His work led to certain definite conclusions, and it is these points which he will emphasize in his talks with American producers.

"As the lumber industry in the United States is at present much depressed, the prospect of an increased export trade is particularly alluring. The Bureau of Foreign and Domestic Commerce, through the work of Mr. Smith, is endeavoring to supply precisely the information and advice needed to greatly increase this trade.

"Mr. Smith will be in Seattle, Wash., until November 1, and will then go to Portland, Ore., San Francisco, Spokane and Chicago, before reporting at Washington. He will make his headquarters in Seattle, San Francisco and Chicago, at the branch offices of the Bureau of Foreign and Domestic Commerce, and at the other places mentioned he can be reached through the local chambers of commerce."

Lumber Industry—The lumber industry in the state of Washington has been depressed for the last three years and the last year and a half has been particularly unprofitable. At times it has been so low as operating only fifty per cent. of its normal capacity. Within the last three months there has been a slight improvement, due to the demand from the line yards in the eastern sections of the country, and likewise to some offshore business. The former demand has increased the output, but the price paid for the product is barely profitable. It is safe to say that in many cases the product is being disposed of at a loss, for the purpose of conversion by which to meet overhead costs and to pay interest on timber bonds. There is no question but what the lumber industry would materially improve if there were sufficient bottoms to transport it to foreign markets. There is, however, a very marked shortage of vessels. What offshore business we now have is profitable and as soon as carriers can be supplied, a number of the large export mills will resume operation.

Bethlehem-Pennsylvania Deal—A week ago it seemed certain that the controlling interest in the Pennsylvania Steel Co. would pass to the Bethlehem Steel Co., as then stated. There seemed to be no doubt that Mr. Schwab's bid would be accepted by both the Pennsylvania Co. and the Reading Iron Co., whose holdings of the Pennsylvania Steel stocks constitute a very large majority. Indeed, it was stated on the best authority that Schwab's bid was satisfactory to the Pennsylvania people, and that it only remained for the Reading Iron board to approve of the transaction. An unexpected obstacle has arisen, however. As is well known, William H. Donner, president of the Cambria Steel Co., has for some time held an option on the Pennsylvania Steel stock at a fixed price, with the further provision that he should have the first call on the stock in case a higher price should be offered by anyone. It now seems that Mr. Donner has given notice that he will meet the Schwab bid, and the transfer is uncertain pending further negotiations. It is said that H. C. Frick is backing the Donner party.

Railroad Gross Earnings for the third week of October of the 32 leading roads in the United States and Canada show an increase of 17.49% over the corresponding period of last year. The statement is as follows:

	1915	Increase
Denver & Rio Grande	$584,200	$45,600
Detroit & Mackinac	23,499	2,369
Duluth, S. Sh. & Atlantic	66,973	12,699
Alabama Great Southern	116,172	31,748
Ann Arbor	55,951	5,608
Buffalo, Roch. & Pittsburgh	253,231	45,961
Canadian Northern	791,800	292,800
Canadian Pacific	3,068,000	1,028,000
Chesapeake & Ohio	856,961	131,301
Chicago, Great Western	328,005	*12,341
Chicago, Indianapolis & Louisville	155,227	27,737
Cin., New Orleans & Texas Pac.	217,159	40,380
Colorado & Southern	331,292	3,508
Grand Trunk of Canada, Grand Trunk Western, Detroit, Grand Haven & Milwaukee, Canada Atlantic	1,043,088	13,605
Louisville & Nashville	1,142,655	113,185
Mineral Range	20,842	6,636
Minneapolis & St. Louis, Iowa Central	235,924	3,576
Minn., St. Paul & S. S. M.	748,763	76,420
Missouri, Kansas & Texas	642,655	*44,727
Missouri Pacific	1,264,000	2,000
Nevada-California-Oregon	11,288	63
Rio Grande Southern	14,070	*349
St. Louis Southwestern	273,000	44,000
Southern Railway	1,362,937	146,653
Texas & Pacific	408,905	7,957
Toledo, Peoria & Western	25,970	1,328
Toledo, St. Louis & Western	125,108	22,252
Western Maryland	205,009	38,278
Total (82 roads)	$14,372,120	.....
Net increase (17.49%)	.....	$2,146,247

*Decrease.